

GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus_n2p model

Run on: November 20, 2002, 07:46:20 ; Search time 39.5 Seconds
(without alignments)
4906.506 Million cell updates/sec

Title: US-09-778-187b-1_COPY_130_1137

Perfect score: 1801

Sequence: 1 atccacacaggtgatgagca.....cgatcagggcagtgatcat 1008

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 566448

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame_n2p_model -DEV=xlp
-O=/cgcn2.1/USPROO/US09778187/runat.20112002.073630.26329/app_query.fasta.1.2318
-DB=PIR_73 -QFMT=fastan -SUFFIX=rpt -MINMATCH=0.1 -LOOPEL=0 -LOOPEXT=0
-UNITS=bites -START=1 -END=1 -MATRIX=biosum62 -TRANS=human40.coi -LIST=45
-DOCCALIGN=200 -THR.SCORE=PCT -THR.MAX=100 -ALIGN=15 -MODE=LOCAL
-OUTFMT=PLC -NORM=EXT -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US09778187_ECGN.1.113 -runat.20112002.073630.26329 -NCPU=6 -ICPU=3
-NO_XLPXY -NO_WMAP -LANG=ENGLISH -NEG.SCORES=0 -WAIT -LONGLOG -DEV.TIMEOUT=120
-WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

PIR_73: *
1: pir1: *
2: pir2: *
3: pir3: *
4: pir4: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description
1	263.5	14.6	5175	2	T20992
2	263.5	14.6	5198	2	T43290
3	248	13.8	407	2	T08732
4	243	13.5	725	2	JEO099
5	239	12.6	1088	1	IUXLNL
6	227	12.3	530	1	A53437
7	227	12.6	4162	2	T42633
8	226	12.5	538	2	I68093
9	223.5	12.4	7962	2	I38346
10	223	12.4	725	2	JEO100
11	223	12.4	1092	1	JN0635
12	222	12.3	344	2	I56551
13	222	12.3	467	1	HLMSP3
14	221	12.3	392	2	B44194

15	221	12.3	417	2	A44194
16	219	12.2	518	2	JC4024
17	218.5	12.1	4391	2	A38096
18	218	12.1	392	1	RWHUPD
19	218	12.1	417	1	RWHUPA
20	216	12.0	478	2	I53960
21	213.5	11.9	812	2	B42632
22	213.5	11.9	932	2	A42632
23	210.5	11.7	345	2	S03199
24	210	11.7	1011	2	T13669
25	209.5	11.6	584	2	I50419
26	208.5	11.6	345	2	JC4025
27	206	11.4	702	2	A36319
28	203.5	11.3	765	2	C42632
29	202.5	11.2	345	2	JC1239
30	202.5	11.2	862	2	I49583
31	202.5	11.2	868	2	A46512
32	202	11.2	847	2	JH0371
33	202	11.2	1443	2	I50600
34	201.5	11.2	338	2	JC1238
35	200	11.1	1323	2	PN0568
36	197.5	11.0	3707	2	S18252
37	196.5	10.9	1344	2	T14316
38	195.5	10.9	1091	1	ICCHNL
39	195	10.8	588	2	A45254
40	195	10.8	1612	2	T30805
41	194	10.8	338	2	JC5519
42	193	10.7	761	1	IJHUNG
43	192.5	10.7	1241	2	T37190
44	191.5	10.6	976	2	T23583
45	190	10.5	588	2	JH0506

ALIGNMENTS

RESULT 1
T20992
hypothetical protein F15G9.4a - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #extL_change 18-Feb-2000
C:Accession: T20992. T24733
R:Stinson, J.
Submitted to the EMBL Data Library, December 1994
A:Reference number: Z19355
A:Accession: T20992
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-5175 <WIL>
A:Cross-references: EMBL:247068; PIDN:CAAB7335.1; GSPDB:GN00028; CESP:F15G9.4a
R:Kershaw, J.
Submitted to the EMBL Data Library, December 1994
A:Reference number: Z19929
A:Accession: T24733
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-5175 <WIL>
A:Cross-references: EMBL:247070; PIDN:CAAB7344.1; GSPDB:GN00028; CESP:F15G9.4a
C:Genetics:
A:Gene: CESP:F15G9.4a
A:Map position: X
A:Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184/1; 2512/2; 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 303/1; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4879/1; 4941/1; 5011/1; 50

Alignment Scores:
Pred. No.: 2,44e-12
Score: 263.50
Percent Similarity: 43.34%
Best Local Similarity: 24.65%
Query Match: 14.63%
DB: 2
Length: 5175
Matches: 87
Conservative: 66
Mismatches: 129
Indels: 71
Gaps: 15

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OM nucleic - protein search, using frame_plus_n2p model

Run on: November 20, 2002, 07:40:00 ; Search time 15.5 Seconds
(without alignments)
5394.599 Million cell updates/sec

Title: us-09-778-187b-1_copy_130_1137

Perfect score: 1801

Sequence: 1 atccccacagcgtatgagca.....cgatcagcagtgatcat 1008

Scoring table:

BLOSUM62	Xgapop 10.0	Xgapext 0.5
	Ygapop 10.0	Ygapext 0.5
	Fgapop 6.0	Fgapext 7.0
	Delpop 6.0	Delpext 7.0

Searched: 112892 segs, 41476328 residues

Total number of hits satisfying chosen parameters: 225784

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

```

-MODEL=frame_n2p.model -DEV=xlp
-O/-cgcn2.1/USPTO.spool/US09778187/runat.20112002.073629.26309/app_query.fasta_1.2318
-DB=SwissProt_40 -QFMT=fasta -SUFFIX=isp -MINMATCH=0.1 -LOOPCI=0 -LOOPEXT=0
-UNIT=bits -START=1 -END=1 -MATRIX=biosum62 -TRANS=human40.coi -LIST=45
-DOCALLIGN=200 -THR.SCORE=pct -THR.MAX=100 -THR.MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NOM=ext -HEADSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US09778187.ecgn1.1.45.grunat.20112002.073629.26309 -NCP=6 -ICPU=3
-NO_XUPXY -NO_MAP -LARGEQUERY -NEG.SCORES=0 -WAIT -LONGLOG -DEV.TIMEOUT=120
-WARN.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELDP=6 -DELEXT=7

```

Database: SwissProt_40:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	239	13.3	1088	1 NCAL_XENLA	P16170 xenopus lae
2	234.5	13.0	515	1 PVR1_PIG	Q99176 sus scrofa
3	227.5	12.6	517	1 PVR1_HUMAN	Q15223 homo sapien
4	227	12.6	530	1 PVR2_MOUSE	P32507 mus musculu
5	226	12.5	538	1 PVR2_HUMAN	Q92692 homo sapien
6	223.5	12.4	837	1 NCX2_MOUSE	Q35136 mus musculu
7	223	12.4	1092	1 NCX2_XENLA	P36533 xenopus lae
8	222	12.3	344	1 NTR1_RAT	Q62718 rattus norv
9	221	12.3	417	1 PVR_CERAE	P32506 cercopithe
10	219	12.2	337	1 PGBM_HUMAN	Q98892 gallus gall
11	218.5	12.1	4393	1 PGBM_HUMAN	P98160 homo sapien
12	217	12.0	417	1 PVR_HUMAN	P13551 homo sapien
13	214.5	11.9	837	1 NCX2_HUMAN	O15394 homo sapien
14	210.5	11.7	345	1 OPCM_BOVIN	P11834 bos taurus
15	210	11.7	1242	1 NPHN_MOUSE	Q94857 mus musculu
16	208.5	11.6	345	1 OPCM_HUMAN	O14882 homo sapien
17	208	11.5	515	1 PVR1_MOUSE	Q93166 mus musculu
18	208	11.5	1493	1 NEOL_MOUSE	P97798 mus musculu

19	207.5	11.5	353	1 CBRU_CHICK	Q90773 gallus gall
20	207	11.5	847	1 CD22_HUMAN	P20273 homo sapien
21	206	11.4	702	1 CEAS_HUMAN	P06731 homo sapien
22	203	11.3	1461	1 NEOL_HUMAN	Q92859 homo sapien
23	202.5	11.2	345	1 OPCM_RAT	P32736 rattus norv
24	202.5	11.2	862	1 CD22_MOUSE	P35329 mus musculu
25	202	11.2	1377	1 NEOL_RAT	P97603 rattus norv
26	202	11.2	1443	1 NEOL_CHICK	Q90610 gallus gall
27	197.5	11.0	3707	1 PGBM_MOUSE	Q05793 mus musculu
28	195.5	10.9	1091	1 NCAL_CHICK	P13590 gallus gall
29	195.5	10.9	1234	1 NPHN_RAT	Q91044 rattus norv
30	195	10.8	583	1 C166_MOUSE	Q61490 mus musculu
31	194	10.8	338	1 LAMP_CHICK	Q98919 gallus gall
32	193	10.7	761	1 NCA2_HUMAN	P13592 homo sapien
33	193	10.7	848	1 NCAL_HUMAN	P13591 homo sapien
34	192.5	10.7	1241	1 NPHN_HUMAN	Q06050 homo sapien
35	190	10.5	588	1 C166_CHICK	P42392 gallus gall
36	190	10.5	1447	1 DCC_MOUSE	P70211 mus musculu
37	189.5	10.5	333	1 AMAL_DROME	P15364 drosophila
38	189.5	10.5	646	1 MU18_HUMAN	P43121 homo sapien
39	189	10.5	1036	1 AXO1_CHICK	P28685 gallus gall
40	188.5	10.5	764	1 ICCR_DROME	Q08180 drosophila
41	188	10.4	853	1 NCAL_BOVIN	P31836 bos taurus
42	188	10.4	858	1 NCAL_RAT	P13596 rattus norv
43	187.5	10.4	583	1 C166_HUMAN	Q13740 homo sapien
44	187.5	10.4	873	1 FAS2_DROME	P34082 drosophila
45	185.5	10.3	338	1 LAMP_HUMAN	Q13449 homo sapien

ALIGNMENTS

RESULT 1

ID	NCAL_XENLA	STANDARD:	PRT: 1088 AA.
AC	P16170:		
DT	01-APR-1990 (Rel. 14, Created)		
DT	01-APR-1990 (Rel. 14, Last sequence update)		
DT	15-JUN-2002 (Rel. 41, Last annotation update)		
DE	Neural cell adhesion molecule 1, 180 kDa isoform precursor (N-CAM 180).		
GN	NCAM1.		
OS	Xenopus laevis (African clawed frog).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Amphibia; Batrachia; Anura; Mesobatrachia; Pipidoidea; Pipidae;		
OC	Xenopodidae; Xenopus.		
OX	NCBI_TaxID=8355;		
RP	[1]		
RP	SEQUENCE FROM N.A.		
RX	MEDLINE=90098871; PubMed=2481269;		
RA	Krieg P.A., Sakaguchi D.S., Kintner C.R.;		
RT	"Primary structure and developmental expression of a large		
RT	cytoplasmic domain form of Xenopus laevis neural cell adhesion		
RT	molecule (NCAM).";		
RL	Nucleic Acids Res. 17:10321-10335(1989).		
CC	- FUNCTION: THIS PROTEIN IS A CELL ADHESION MOLECULE INVOLVED IN		
CC	NEURON-NEURON ADHESION, NEURITE FASCICULATION, OUTGROWTH OF		
CC	NEURITES, ETC.		
CC	- SUBCELLULAR LOCATION: Type I membrane protein.		
CC	- ALTERNATIVE PRODUCTS: 2 isoforms: N-CAM 180 (shown here) and		
CC	N-CAM 140: are produced by alternative splicing		
CC	- TISSUE SPECIFICITY: EXPRESSED IN NEURON AND IN PRESUMPTIVE NEURAL		
CC	TISSUE.		
CC	- DEVELOPMENTAL STAGE: THE MRNA ENCODING THIS LD-NCAM IS THE MAJOR		
CC	TRANSCRIPT PRESENT IN BOTH MATERNAL RNA AND IN THE EMBRYO DURING		
CC	EARLY NEURAL DEVELOPMENT.		
CC	- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.		
CC	- SIMILARITY: CONTAINS 5 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.		
CC	- SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LIKE DOMAINS.		
CC	*****		
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration		
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -		
CC	the European Bioinformatics Institute. There are no restrictions on its		
CC	use by non-profit institutions as long as its content is in no way		

[illegible]

Db		:::: ::::	
278	AlaGluTYrSerCys----	IleLaasnaSnGlnAlaGluGluAlaThrIleLeu	296
Qy	GTCTGTCGCCACACGTAATCTGATGATATCCAGAAAGACACTGCGTGAAGT	364	
	::: :::: :::: ::::		
Db	297 LeuLysValTYrAlaLysProLysIleThrTYrAlaGluAsnLysThrAlaValGluLeu	316	
Qy	GAGGAGATTGAAGTAACTGCACCTGCTATGGCCAGCAAGACACGACGATATAGGTG	422	
	::: :::: ::::		
Db	317 AspGluIleThrIleuThrCysGluAla---	SerGlyAspProIleProSerIleThrTYr	335
Qy	424 -----TTCAAGGAAACACAGACGTAAAGGCAATTCGAGGTG	465	
Db	336 ArgThrAlaValArgAsnIleSerSerGluAlaThrTrpLysAspGlyHisIleValVal	355	
Qy	463 GAAGAGTGTCAGACATGTACACTGTGTGACAGTACGATGATGCTGAAGGTGCACAGAG	522	
Db	356 LysGluHisIleArgMet-----	SerAlaLeuThrLeuLysAspIleGlnTYr	371
Qy	523 GACCATGGGGTCCACGATGATCTGCCAGGTGGACACCCCTGGGTGATCGAAACCTCAG	582	
Db	372 ThrAspAlaGluGluTYr-PheCysIleAlaSerAsnPro--	IleGlyValAlaSerMetGln	390
Qy	583 ACCGACGGCTATCTGAGATGTACAGATATAGGCTCAAGTGCACATTCAGATGATCTTACT	642	
Db	391 AlaMet---TYrPheGluValGlnTYrAlaProLysIleArg-----	GlyPro	405
Qy	643 CTACAGGCTTAACCCGGGAGGGGAGCGCGCTTGAAGTTAATCATGTGAAGCCATCGGAG	702	
Db	406 ValValValTYrThrTrpGluGlyAsnProValAsnIleThrCysGluValPheAlaHis	425	
Qy	703 CCCGAGCTGTGATGGTAACTTGGGTGAGAGTCCATGATGAATAGCTCAACAC-----	756	
Db	426 ProArg---AlaAlaValAlaThrTrpPheArgAspGlyGlnLeuLeuProSerSerAsnPhe	444	
Qy	757 -----GCCGTACTCTGTGGGCC-----	AACGTGTATCATCAATTAACCTTAAC	798
Db	445 SerAsnIleLysIleTYrSerGlyProThrSerSerLeuGluValAsnProAspSer	466	
Qy	799 AAACAGATAATGTATACATACCGCTGTGAAAGCTTCAACATATGAGGGAAAGCTCACTG	858	
Db	465 GluAsnAspPheGlyAsnTYrAsnGlyThrAlaIleAsnThrIleGlyHisGluPheSer	484	
Qy	859 GATTATATGCTGTATGTATACGATCCGCCCAACATATCTCTCTCCACACACACACC	918	
Db	485 GluPheIleLeuValGlnAlaAspThrProSerSer-----	ProAlaIleArgLys	501
Qy	919 AOCACACACACACACACACACACACACACACCTTACATCATACAGATTCGCCGACGAT	978	
Db	502 ValGluProTYrSerSerThrValMetIleValPheAspGluProAspSerThrGlyGly	521	
RESULT 2			
	PVR1_PIG	STANDARD;	PRT: 515 AA.
Ac	09GLU76;		
Dt	16-OCT-2001 (Rel. 40, Created)		
Dt	15-OCT-2001 (Rel. 40, Last sequence update)		
Dt	15-JUN-2002 (Rel. 41, Last annotation update)		
De	Poliovirus receptor related protein 1 precursor (Herpes virus entry		
De	mediator C) (HvEC) (Nectin 1).		
Cn	PVR1 OR PVR1 OR HVEC.		
Os	Sus scrofa (Pig).		
Oc	Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;		
Oc	Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.		
Ox	NCBI_TaxID=9823;		
Rn	[1]		
Rx	SEQUENCE FROM N.A.		
Rx	MEDLINE=21176378; Pubmed=11277703;		
Ra	Malne R.S.B., Connolly S.A., Krummenacher C., Eisenberg R.J.,		
Ra	Cohen G.H.;		
Rt	"Porcine Hvec, a member of the highly conserved hvec/nectin 1 family,		
Rt	is a functional alphaherpesvirus receptor.";		
Rt	Virology 281:315-328(2001).		

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OM nucleic - protein search, using frame_plus.n2p model

Run on: November 20, 2002, 07:46:46 ; Search time 17.5 seconds
(without alignments)
3389.521 Million cell updates/sec

Title: US-09-778-187b-1_COPY_130_1137
Perfect score: 1801
Sequence: 1 atccaccagcgtgcatgagca.....cgatcagcagcgtgcatcat 1008

Scoring table: BLOSUM62
Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 525148

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

-MODEL-frame+.n2p.model -DEV=xlp
-O/cgcn2.1/USPRO.spool/US09778187/runat.20112002_073631_26345/app_query.fasta.1.2318
-DB-issued_Patents_AA -OPMT-fastlan -SUFFIX=ra1 -MINMATCH=0.1 -LOOPL=0
-LOOPEXT=0 -UNITS-bits -START=1 -END=1 -MATRIX-biosum62 -TRANS-human40.cdl
-LIST=45 -DOCALLIGN=200 -THR_SCORE=pcr -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORMEXT -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09778187.ecgn1.1.28.0runat.20112002_073631_26345 -ICPU=3
-NO_XMPXY -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -LONGLOG -DEV_TIMEOUT=120
-WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

- 1: Issued_Patents_AA.*
- 2: /cgcn2.6/ptodata/1/1aa/3a.COMB.pep.*
- 3: /cgcn2.6/ptodata/1/1aa/5b.COMB.pep.*
- 4: /cgcn2.6/ptodata/1/1aa/6a.COMB.pep.*
- 5: /cgcn2.6/ptodata/1/1aa/PCTUS.COMB.pep.*
- 6: /cgcn2.6/ptodata/1/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	623.5	34.6	421	2	US-08-659-984A-1
2	623.5	34.6	421	4	US-08-660-531-1
3	623.5	34.6	444	2	US-08-659-984A-5
4	623.5	34.6	444	4	US-08-660-531-5
5	232	12.9	393	1	US-08-429-742-2
6	226	12.5	458	4	US-09-435-956A-1
7	206.5	11.5	388	1	US-08-429-742-4
8	206	11.4	642	1	US-08-217-299-1
9	206	11.4	698	2	US-08-602-725-36
10	206	11.4	734	2	US-08-389-459A-17
11	206	11.4	734	2	US-08-987-867A-17
12	194	10.8	1651	4	US-09-540-245A-18

13	193.5	10.7	1395	4	US-09-540-245A-15	Sequence 15, Appl
14	192.5	10.7	1241	2	US-09-040-774-2	Sequence 2, Appl1
15	189	10.5	477	2	US-08-432-016-3	Sequence 2, Appl1
16	189	10.5	477	2	US-08-684-594-3	Sequence 3, Appl1
17	187.5	10.4	583	2	US-08-432-016-2	Sequence 2, Appl1
18	187.5	10.4	583	2	US-08-684-594-2	Sequence 2, Appl1
19	185.5	10.3	308	2	US-08-414-657D-46	Sequence 4, Appl1
20	185.5	10.3	325	2	US-08-414-657D-2	Sequence 2, Appl1
21	185.5	10.3	325	2	US-08-414-657D-41	Sequence 41, Appl1
22	185.5	10.3	325	4	US-09-135-080-2	Sequence 2, Appl1
23	185	10.3	287	2	US-08-414-657D-48	Sequence 48, Appl
24	185	10.3	304	2	US-08-414-657D-44	Sequence 44, Appl
25	183.5	10.2	315	2	US-08-414-657D-47	Sequence 47, Appl
26	183.5	10.2	338	2	US-08-414-657D-42	Sequence 42, Appl
27	183.5	10.2	338	2	US-08-414-657D-43	Sequence 43, Appl
28	183.5	10.2	338	4	US-09-135-080-4	Sequence 4, Appl1
29	183	10.2	287	2	US-08-414-657D-49	Sequence 49, Appl
30	183	10.2	310	2	US-08-414-657D-45	Sequence 45, Appl
31	180	10.0	1447	4	US-09-041-886-25	Sequence 25, Appl
32	180	10.0	1447	5	PCT-US94-05277-2	Sequence 2, Appl1
33	179.5	10.0	1297	4	US-09-540-245A-17	Sequence 17, Appl
34	178	9.9	869	1	US-08-374-834-16	Sequence 16, Appl
35	178	9.9	869	2	US-08-644-271-29	Sequence 29, Appl
36	178	9.9	869	4	US-09-077-955-33	Sequence 33, Appl
37	177.5	9.9	338	2	US-08-414-657D-60	Sequence 60, Appl
38	177.5	9.9	338	2	US-09-135-080-8	Sequence 8, Appl1
39	176.5	9.8	478	5	PCT-US95-08493-15	Sequence 15, Appl
40	176.5	9.8	860	5	PCT-US95-08493-19	Sequence 19, Appl
41	176.5	9.8	860	5	PCT-US95-08493-21	Sequence 21, Appl
42	175.5	9.7	408	4	US-09-724-864-62	Sequence 62, Appl
43	174	9.7	607	2	US-08-752-307B-12	Sequence 12, Appl
44	174	9.7	607	4	US-09-707-802-12	Sequence 12, Appl
45	174	9.7	607	4	US-09-991-326-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1
US-08-659-984A-1
; Sequence 1, Application US/08659984A
; Patent No. 5942400
; GENERAL INFORMATION:
; APPLICANT: Anderson, John P.
; APPLICANT: Slnha, Sukanto
; APPLICANT: Jacobson-Croak, Kirsten L.
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
; TITLE OF INVENTION: Inhibition
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/659,984A
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400

TELEFAX: 415-326-2422
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 421 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-659-984A-1

Alignment Scores:

Pred. No.:	4,22e-50	Length:	421
Score:	623.50	Matches:	137
Percent Similarity:	57.83%	Conservative:	66
Best Local Similarity:	39.03%	Mismatches:	121
Query Match:	34.62%	Indels:	27
		Gaps:	6

US-09-778-187b-1_COPY_130_1137 (1-1008) x US-08-659-984A-1 (1-421)

QY 16 GGGCAGATCTGTTTCAAGAGACGTGACATCGAGGAGAGGTTGCGACCATCAGT 75
 |||||
 Db 10 GlycInPheProLeuThrGlnAsnValThrValAlaGluGlyThrAlaIleLeuThr 29
 QY 76 TGCACAGTCATTAAGAGTACGACTCTGTGATTAGCTACTGAATCCACAGCGACAC 135
 |||||
 Db 30 CysArgValAspGlnAsnAspAsnThrSerLeuGlnTrpSerAsnProAlaGlnGlnThr 49
 QY 136 ATTTATTTTCAGGACTTCAGGCTTTGTAAGAGACAGAGGTTTCAGTTCCTGAATTTTCT 195
 |||||
 Db 50 LeuThrPheAspAspLysLysAlaLeuArgAspAsnArgIleGluLeuValAlaAlaSer 69
 QY 196 AGCAGTACATCAAGATATCATATGACAAACGTCATTTCTGATGAGAAGATACTTT 255
 |||||
 Db 70 TrpHisGluLeuSerIleSerValSerAspValSerLeuSerAspGluGlyThrThr 89
 QY 256 TGCACGCTCTTACCGATCCCCACAGAAAGTTACACACCATCACAGTCTGCTGCCA 315
 |||||
 Db 90 CysSerLeuPheThrMetProValLysThrSerLysAlaTrpLeuThrValLeuGlyVal 109
 QY 316 CCACGTAATCGATGATGATATCCAGAAAGACACTCGCGTGAAGAGGAGGAGGATGGA 375
 |||||
 Db 110 ProGluLysProGlnIleSerGlyPheSerSerProValMetGluGlyAspLeuMetGln 129
 QY 376 GTCACTGACCTGCTATGGCCAGCAGACCCAGCATATCAGTGGTTCMAAGGGAAC 435
 |||||
 Db 130 LeuThrCysLysThrSerGlySerLysProAlaAlaSerIleArgTrpPheLysAsnAsp 149
 QY 436 ACAGAGCTAAAGCAATCGGAGGTGGAAGAGTGCTCA-----GACATGTACACT 486
 |||||
 Db 150 LysGluIleLysAspValLysTrpLeuLysGluLysAlaAsnArgLysThrPheThr 169
 QY 487 GTGACAGTCAGTGTGATGTCGACACAGAGGAGGAGGATGGGTCGCCGATGATCGC 546
 |||||
 Db 170 ValSerSerThrLeuAspPheArgValAlaSerGlySerAspGlyValAlaValIleLys 189
 QY 547 CAGGTGAGGACCCCTGGGTCACCTGGAACCTGCAG---ACCCAGCGGTATCAGAGTA 603
 |||||
 Db 190 ArgValAspHisGluSerLeuAsnAlaThrProGlnValAlaMetGlnValLeuGluIle 209
 QY 604 CAGATTAAGCTCAAGTGCACATTCACATGACTTATCTCTACAAAGCTTAACCCGGGA 663
 |||||
 Db 210 HisTrpThrProSerValLysIle-----IleProSerThrProPheProGlnGlu 226
 QY 664 GGGAGCCGCTTGATTAACATGTAAGCATCGGAGGCCCGGACCTGATGATGTA 723
 |||||
 Db 227 GlycInProLeuIleLeuThrCysGluSerLysLysProLeuProGluProValLeu 246
 QY 724 TGGGTGAGAGTCGATGTAATG-----CCTCAACAGCCGCTACTGCTGGGCCCAAC 777
 |||||
 Db 247 TrpThrLysAspGlyGlyGluLeuProAspProAspArgMetValValSerGlyArgGlu 266
 QY 778 CTGTTCTCAATAACCTAAACAAACAGATTAATGTTACATACCGCTGTGAAGCTTCAAC 837

Db 267 LeuAsnIleLeuPheLeuAsnLysThrAspAsnGlyThrTrpArgCysGluAlaIleThrAsn 286
 QY 838 ATAGGGGGAAGGTCACATCGGATTAATGCTGATGTAATGATACGATCCCGCACAACATATC 897
 |||||
 Db 287 ThrIleGlyIleSerSerAlaGluTrpValLeuIleValHisAspValProAsnThrLeu 306
 QY 898 CCTCCTCCCAACAGAACCCACCCAGCACACACACACACACACATCCTTACATC 957
 |||||
 Db 307 LeuProThrThrIleIleProSerLeuThrThrAlaThrValThrThrValAlaIle 326
 QY 958 ATCACA-----GATTCGCCGACA 975
 |||||
 Db 327 ThrThrSerProThrThrSerAlaThrThrSerSerIleArgAspProAsnAlaLeuAla 346
 QY 976 GGTGAGAGGCTCGATCAGGACGAGTGGATCAT 1008
 |||||
 Db 347 GlycInAsnGlyPro-----AspHis 353

RESULT 2

US-08-660-531-1
 ; Sequence 1, Application US/08660531
 ; Patent No. 6221645
 ; GENERAL INFORMATION:
 ; APPLICANT: Chrysler, Susanna M.S.
 ; APPLICANT: Sinha, Sukanto
 ; APPLICANT: Klein, Pamela S.
 ; APPLICANT: Anderson, John P.
 ; TITLE OF INVENTION: Beta-Secretase
 ; NUMBER OF SEQUENCES: 21
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Townsend and Townsend and Crew LLP
 ; STREET: Two Embarcadero Ctr., 8th Floor
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94111-3834
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: IBM PC compatible
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/660,531
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/480,498
 ; FILING DATE: 07-JUN-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Heslin, James M.
 ; REGISTRATION NUMBER: 29,541
 ; REFERENCE/DOCKET NUMBER: 15270-002210US
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 415-326-2400
 ; TELEFAX: 415-326-2422
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 421 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-660-531-1

Alignment Scores:

Pred. No.:	4,22e-50	Length:	421
Score:	623.50	Matches:	137
Percent Similarity:	57.83%	Conservative:	66
Best Local Similarity:	39.03%	Mismatches:	121
Query Match:	34.62%	Indels:	27
		Gaps:	6

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OM nucleic - protein search, using frame_plus.n2p model

Run on: November 20, 2002, 07:44:26 ; Search time 69.25 Seconds

(Without alignments)
5998.426 Million cell updates/sec

Title: US-09-778-187b-1_COPY_130_1137

Perfect score: 1801

Sequence: 1 atccccacaggtgcatgggca.....cgatcagggcgatgatcat 1008

Scoring table: BLOSUM62
Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 1343160

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Command line parameters:
-MODEL=frame+azp.model -DEV=xlp
-G/cgn2.1/USPTO.spool/US09778187/crunat_20112002.073630.26319/app_query.fasta.1.2318
-DB=SPTRMBL_21 -QFMT=fastan -SUFFIX=rspt -MINMATCH=0.1 -LOOPEXT=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=1 -MATRIX=blomsu62 -TRANS=human40.col -LIST=45
-DOCALLIGN=200 -THR.SCORE=Pct -THR.MAX=100 -THR.MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTFMT=Pct -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US09778187.ecgn.1.1.204/crunat_20112002.073630.26319 -NCPU=6 -ICPU=3
-NO_XLPXY -NO_MMAP -LARGEQUERY -NEG.SCORES=0 -WAIT -LONGLOG -DEV.TIMEOUT=120
-NARN.TIMEOUT=30 -THREADS=1 -XGAPOP=6 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

SPTRMBL_21:
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_rodent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacteriap:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1758	97.6	442	Q9BY67	Q9BY67 homo sapien

2	1741	96.7	445	11	Q8RAL1	Q8RAL1 mus musculus
3	1725.5	95.8	456	11	Q8R5M8	Q8R5M8 mus musculus
4	1725.5	95.8	494	11	Q9CRY3	Q9CRY3 mus musculus
5	1529	84.9	336	11	Q9D6E7	Q9D6E7 mus musculus
6	1180	65.5	295	11	Q9J2H8	Q9J2H8 mus musculus
7	1157.5	64.3	306	11	Q9QY14	Q9QY14 mus musculus
8	1137	63.1	295	11	Q9QY16	Q9QY16 mus musculus
9	1048	58.2	289	11	Q9QY15	Q9QY15 mus musculus
10	1024.5	56.9	278	11	Q9QY13	Q9QY13 mus musculus
11	622	34.5	388	11	Q8R464	Q8R464 mus musculus
12	609	33.8	381	4	Q9Y4A4	Q9Y4A4 homo sapien
13	482.5	26.8	396	11	Q9N9N28	Q9N9N28 mus musculus
14	469.5	26.1	432	4	Q9UPL1	Q9UPL1 homo sapien
15	301	16.7	549	11	Q9D006	Q9D006 mus musculus
16	298	16.5	549	11	Q9JLB9	Q9JLB9 mus musculus
17	292	16.2	549	4	Q9NQS3	Q9NQS3 homo sapien
18	287	15.9	438	11	Q9JLB7	Q9JLB7 mus musculus
19	285	15.8	510	11	Q9JLB8	Q9JLB8 mus musculus
20	263.5	14.6	5198	5	Q76518	Q76518 caenorhabditis
21	255	14.2	1482	5	Q9V4Y0	Q9V4Y0 drosophila
22	250	13.9	439	13	Q57349	Q57349 gallus galli
23	248	13.8	407	4	Q9Y412	Q9Y412 homo sapien
24	243.5	13.5	1102	11	Q9J2H7	Q9J2H7 mus musculus
25	243	13.5	725	13	Q73633	Q73633 xenopus laevis
26	235	13.0	393	4	Q95727	Q95727 homo sapien
27	234.5	13.0	1032	13	Q8UVD6	Q8UVD6 brachydanio
28	227	12.6	4162	13	Q98918	Q98918 gallus galli
29	224.5	12.5	605	4	Q96584	Q96584 homo sapien
30	223.5	12.4	7962	4	Q10465	Q10465 homo sapien
31	223.5	12.4	34350	4	Q8WZ42	Q8WZ42 homo sapien
32	223	12.4	725	13	Q73634	Q73634 xenopus laevis
33	222	12.3	467	11	Q91V79	Q91V79 mus musculus
34	222	12.3	1380	4	Q9HCK4	Q9HCK4 homo sapien
35	222	12.3	1675	13	Q98SM4	Q98SM4 brachydanio
36	221.5	12.3	975	5	Q97174	Q97174 drosophila
37	221	12.3	344	11	Q99P10	Q99P10 mus musculus
38	220	12.2	344	4	Q9P121	Q9P121 homo sapien
39	220	12.2	449	4	Q90E16	Q90E16 homo sapien
40	219.5	12.2	1056	13	Q90Z03	Q90Z03 xenopus laevis
41	219	12.2	344	13	Q9DF61	Q9DF61 gallus galli
42	219	12.2	1060	11	Q90Z13	Q90Z13 rattus norvegicus
43	217.5	12.1	959	5	Q9N9Y9	Q9N9Y9 drosophila
44	217.5	12.1	968	5	Q9W4T9	Q9W4T9 drosophila
45	217.5	12.1	4370	4	Q9H3V5	Q9H3V5 homo sapien

ALIGNMENTS

RESULT 1

Q9BY67 PRELIMINARY: PRT; 442 AA.

AC Q9BY67; 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
DE 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE Nectin-like protein 2.
GN NECTIN2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;
RT "Cloning of a novel human cDNA encoding a member of the immunoglobulin superfamily.";
RT Submitted (MAR-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF132811; AAF69029.1; -
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003600; Ig_Like.
DR Pfam: PF00047; Ig_3.

DR SMART: SM00409; IG: 3.
 DR SMART: SM00408; IGC2; 3.
 DR SMART: SM00410; IG_1like; 2.
 KW Immunoglobulin domain.
 SQ SEQUENCE 442 AA; 48537 MW; 68183E3238735062 CRC64;

Alignment Scores:

Pred. No.:	1,96e-146	Length:	442
Score:	1758.00	Matches:	335
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	99.70%	Mismatches:	0
Query Match:	97.61%	Indels:	0
DB:	4	Gaps:	0

US-09-778-187b-1_COPY_130_1137 (1-1008) x Q9BY67 (1-442)

QY 1 ATCCCCACAGGTGATGGGCAATCTGTTTACGAACACCTGCAGACAGTATCGAGGAGAG 60
 |||||
 Db 39 ILeProthrglyspgylglnasnleuphethrlyspaltrvalilegluglyglu 58
 QY 61 GTTCCGACATCAAGTCCCAAGTCGAATAGAGTACGACTCTGTATTCAGTCACTCAAT 120
 |||||
 Db 59 ValaIarhrilesersyglvalasnlyseraspserValileglnleuasn 78
 QY 121 CCCACAGGACAGCATTTATTTACGAGACTTCAGGCTTTGAAGACAGCAGGTTTCAG 180
 |||||
 Db 79 ProasnarglnhrilietryphearqasphearproleuylsaspserArgPhegln 98
 QY 181 TTGCTGAATTTTCTACAGCAAGTCAAAATGATATGACAAACGCTCAATTTCTGAT 240
 |||||
 Db 99 leuLeuasnhesersersersergluleuylvaliserleuhrasnvaliserIleSerasp 118
 QY 241 GAAGGAAGATACCTTTTCCAGCTCTATACCATCCCCACAGCAAAAGTTACACCACCATC 300
 |||||
 Db 119 GlUGlytrgtyrphesygluleuyltrhrasproproglinsertyrthrIle 138
 QY 301 ACAGTCTGTGTCACACACCTAATCTGATATGATATCCAGAAAGCAGCTGGGCTGAA 360
 |||||
 Db 139 ThrValleuvalProProaargasnleuMetIleaspIleglInaargspthrAlaValglu 158
 QY 361 GGTGAGAGATTAAGTCAACTGCATGCTATAGCCAGCAAGCAGCAGCAGCATATCAGG 420
 |||||
 Db 159 GlYglugluilegluvalasnlyserThrAlaMetAlaSerlyspRoalatrhrIleArg 178
 QY 421 TGGTTCAAAGGGAACACAGAGCTAAAGCAAAATCGAGGTGGAAGAGTGCACAGATG 480
 |||||
 Db 179 TrpPheylslyasnthrIleuylsglylyssergluvalgluInutrpserAspmet 198
 QY 481 TACACTGTGACCACTGATGCTGATGCTGAGGTGCACAGAGACGATGGGGTCCAGTG 540
 |||||
 Db 199 TyrThrValthrIserglInleuMetleuylsValHisIlysglInaspaspglYValProval 218
 QY 541 ATGTGCGAGGTGAGACACCTGCGCTCATGGAACCTGAGAACCCAGCGGTATCTGA 600
 |||||
 Db 219 IleCysglInvalglInhsproAlaValThrGlyasnleuInthrGlnaIlyrleGlu 238
 QY 601 GTACAGATAAGCTCAAGTGCACATTCAGATCACTTATCTCTACAAAGCTTAACCCGG 660
 |||||
 Db 239 ValglInutrylspProglInvalHisIleglInMetThrTyrrProleuInglYleuThrArg 258
 QY 661 GAAGGGAGACCGCTTGAGTTAAACATGGAAGCCATGGGAGGCCACCGCTGTGATGGA 720
 |||||
 Db 259 GlUGlyAspAlaIleuInleuThrCysgluAlaIleglYlspProglInProvalImeVal 278
 QY 721 ACTTGGGTGAGTGCATGATGAATGCTCAACACGCGCTACTGCTGGGCCAACCTG 780
 |||||
 Db 279 ThrTrpValargYValaspaspglumetProglInHisAlaValleuSerGlyProasnleu 298
 QY 781 TTCATCAATAACCTTAACAAACAGATATGATACCGCTGTGAAGCTTCAAACATA 840
 |||||
 Db 299 PheIleasnInleuasnlystrhraspasnGlyThrTyrrgCysgluAlaSerasnIle 318
 QY 841 GTGGGGAAGCTCACTCGGATTTATGCTGTATGTATACGATCCCCCACAACATATCCCT 900
 |||||

Db 319 ValcIyusalInhsSerAspTyrmetleuylValIytraspProProthrThrIlePro 338
 QY 901 CCTCCCAACAAACATC 960
 |||||
 Db 339 ProProthrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr 358
 QY 961 ACAGATTCGCCGAGCAGTGAAGAGCGCTGCATCGAGCAGTGAATCAT 1008
 |||||
 Db 359 ThrspsernrgAlaGlyglugluGlySerIleargAlaValaspHis 374
 |||||

RESULT 2

Q8R4L1

ID

Q8R4L1

PRELIMINARY;

PRT;

445 AA.

AC

Q8R4L1;

DT

01-JUN-2002 (TReMBLrel. 21, Created)

DT

01-JUN-2002 (TReMBLrel. 21, Last sequence update)

DT

01-JUN-2002 (TReMBLrel. 21, Last annotation update)

DE

Tumor suppressor in lung cancer 1.

OS

Mus musculus (Mouse).

OC

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX

NCBI_TaxID=10090;

RN

[1]

SEQUENCE FROM N.A.

RP

STRAIN=129/SVJ;

RC

Fukami T., Maruyama T., Murakami Y.;

RA

"Identification of murine orthologue of the TSC1 gene."

RT

Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.

DR

EMBL: AF34663; M186736.1; -

SQ

SEQUENCE 445 AA; 48664 MW; C5D5A070DAF70E55 CRC64;

Alignment Scores:

Pred. No.:	6.19e-145	Length:	445
Score:	1741.00 <td>Matches:</td> <td>332</td>	Matches:	332
Percent Similarity:	99.11%	Conservative:	1
Best Local Similarity:	98.81%	Mismatches:	3
Query Match:	96.67%	Indels:	0
DB:	11	Gaps:	0

US-09-778-187b-1_COPY_130_1137 (1-1008) x Q8R4L1 (1-445)

QY 1 ATCCCCACAGGTGATGGGCAATCTGTTTACGAACACCTGCAGACAGTATCGAGGAGAG 60
 |||||
 Db 42 ILeProthrglyspgylglnasnleuphethrlyspaltrvalilegluglyglu 61
 QY 61 GTTCCGACATCAAGTCCCAAGTCGAATAGAGTACGACTCTGTATTCAGTCACTCAAT 120
 |||||
 Db 62 ValaIarhrilesersyglInvalasnlyseraspserValileglnleuasn 81
 QY 121 CCCACAGGACAGCATTTATTTACGAGACTTCAGGCTTTGAAGACAGCAGGTTTCAG 180
 |||||
 Db 82 ProasnarglnhrilietryphearqasphearproleuylsaspserArgPhegln 101
 QY 181 TTGCTGAATTTTCTACAGCAAGTCAAAATGATATGACAAACGCTCAATTTCTGAT 240
 |||||
 Db 102 leuLeuasnhesersersersergluleuylsValiserleuhrasnvaliserIleSerasp 121
 QY 241 GAAGGAAGATACCTTTTCCAGCTCTATACCGATCCCCACAGGAAGTTACACCACCATC 300
 |||||
 Db 122 GlUGlyArgtyrphesyglInleuyltrhrasproproglinsertyrthrIle 141
 QY 301 ACAGTCTGTGTCACACACCTAATCTGATGATGATATCCAGAAACACCTGCGTGA 360
 |||||
 Db 142 ThrValleuvalProProaargasnleuMetIleaspIleglInlyspthrAlaValglu 161
 QY 361 GGTGAGAGATTAAGTCAACTGCATGCTATGCGCAGCAGCAGCAGCAGTATCAGG 420
 |||||
 Db 162 GlYglugluilegluvalasnlyserThrAlaMetAlaSerlyspRoalatrhrIleArg 181
 QY 421 TGGTTCAAAGGGAACACAGAGCTAAAGCAAAATCGAGGTGGAAGAGTGCAGCATG 480
 |||||
 Db 182 TrpPheylslyasnlysgluInleuylsglylyssergluvalgluInutrpserAspmet 201
 |||||

OY	481	TACAGCTGACCACTCAGATCATCTGTAAAGTGCACAAGAAGCATGGCGTCACAGT	540
Db	202	TyrrhitraVal1ThrsrSgInLeumetleUlyVa1HtIsLySGlUsArSpArCyIva1Prova1	221
OY	541	ATTCGCCAGGTGGAGAACCCCGCGGTACTGAGGAACCTTGACAGACCAGCGGTATTAGAA	600
Db	222	IleCSySglInVa1GlUnHSrPrOlaIva1ThcLyaSNleUlInThrglnAgtYrLEgLn	241
OY	601	GTAACAGTAAAGCCTCAAGTGCACATTCAGATGACTTATCTCTGTACAAAGCTTAACCCG	660
Db	242	VaLGlnTyLysPrOGlnVn1HtIsIEGLmEthrTyTrProleUGlnJyleuthrArg	261
OY	661	GAAGCGACCCGCTTGAGTTAACTGTGTGAAGCCATCCGGAAAGCCCCAGCTTGATGTGA	720
Db	262	GlucLyAsPaRa1PheNgleUethrCYsgLnLa1LEgLYlsPrOGlnProVaImeVal	281
OY	721	ACTGGCGTAGAGTCAGATGATGAATAATGCTTCACACCCGCTACTGTCTGGCCCAACSTG	780
Db	282	ThrTrPrVa1ArgVa1AsPaRGlmeRProGlnHts1AvaiLeusSrGlyProASnLeu	301
OY	781	TTCATCAATTAACSTTAACAAACAAAGATATGATACATACGCTGTGAAGCTTAAACATA	840
Db	302	PheIleASnAnLeuASnLySthAsPasncLYhTrtyrArgCYsgLnAlaseraSnile	321
OY	841	GTGGGAAAGCTCACCTGGATATATCTGTATATACATATCCCACCAACTATNCCCT	900
Db	322	ValGLySLa1HtLSerAsPryTmeUethrYa1LytrAsPrProThrTr1IlePro	341
OY	901	CCTCCACAAACACACCACACACACACACACACACACACACACATCTTACATCATC	960
Db	342	ProproThrTrThrTrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr	361
OY	961	ACAGATTCCCGACAGGTGAAGAAGCTCGATCAGGGCAGTGCATCT	1008
Db	362	ThrsPserArGa1AgLyGLngLyThrlleGlyLa1Va1AsPhis	377
RESULT 3			
ID	OBR5M8	PRELIMINARY;	PRT; 456 AA.
AC	OBR5M8:		
DT	01-JUN-2002 (TREMBLrel. 21, Created)		
DT	01-JUN-2002 (TREMBLrel. 21, Last sequence update)		
DT	01-JUN-2002 (TREMBLrel. 21, Last annotation update)		
DE	RA175.		
GN	RA175.		
OS	Mus musculus (Mouse).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
OX	NCBI_TaxID=10090;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RA	Memot T.;		
RT	"Biological function of RA175, a new member of Immunoglobulin super		
RT	family.";		
RL	Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.		
DR	EMBL; AB064265; BAB83501.2; -		
SO	SEQUENCE 456 AA; 49787 MW; 3226866AAABC1CF CRC64;		
Alignment Scores:			
Pred. NO.:	1,44e-143	Length:	456
Score:	1725.50	Matches:	332
Percent Similarity:	95.97%	Conservative:	1
Best Local Similarity:	95.68%	Mismatches:	3
Query Match:	95.81%	Indels:	11
DB:	11	Gaps:	1

0y 1 ATCCCCACAGGTATATGGGAGAAATCTGTTTACGAAAGACGTGACAGTATCGAGGGAGAG 60
Db 42 ILleProthrlYspolYclInasnLeuPheTrlYaspValTrnValILleGlUGlUGlu 61

[illegible]

Q9CRY3	PRELIMINARY;	PRT;	494	AA
ID	Q9CRY3			
AC	Q9CRY3;			
DT	01-JUN-2001 (Tremblay, 17, Created)			

DT 01-JUN-2001 (TREMBLrel. 17, last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, last annotation update)
DE 3100001108RIK protein (Fragment).
GN IGSF4 OR 3100001108RIK.
OS Mus musculus (mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=EMBRYONIC HEAD;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaoka I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Glissl C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schirml L.M., Staudl F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Balderelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hornann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald C., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitlaker C., Wilming L.,
RA Wysshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsuke S.,
RA Hayashiaki Y.,
RT "Functional annotation of a full-length mouse cDNA collection."
RL Nature 409:685-690(2001).
DR EMBL; AK013911; BAB29050.1; -
DR MGD; MGI:1889272; Igsf4.
DR InterPro: IPR003599; Ig.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003006; Ig_MHC.
DR Pfam; PF00047; Ig_3.
DR SMART; SM00409; IG; 3.
DR SMART; SM00408; IGC2; 3.
DR SMART; SM00410; IG_Like; 1.
KW Immunoglobulin domain.
FT NON_TER 1
SQ SEQUENCE 494 AA: 53946 MW: F5E09ABA1857ABCO CRC64;

Alignment Scores:
Pred. No.: 1,47e-143 Length: 494
Score: 1725.50 Matches: 332
Percent Similarity: 95.97% Conservative: 1
Best Local Similarity: 95.68% Mismatches: 3
Query Match: 95.81% Indels: 11
DB: 11 Gaps: 1

US-09-778-187b-1_copy_130_1137 (1-1008) x 09CRX3 (1-494)
OY 1 ATCCCGACAGGTGAGGAGATCTGTTACGAAGACGTGACAGTGCAGGAGAG 60
DB 80 ILEPRTGCTGlyspglglnasnleuphetrhllysaspalthrvalilleglulglyglu 99
OY 61 GTTGGCAGCATCAGTTGCCAAGTCAATAGAGGTGAGCAGCTGTGTGATCAGTACGAT 120
DB 100 ValAlaThrIleSerCysGlnValAsnLysSerAspSerValIleGlnLeuLeuAsn 119
OY 121 CCCAAGAGGAGACCATTTATTTTCAGGAGCTTAGGCTTTGAAGAGACAGAGTTTCAG 180
DB 120 ProAsnArgGlnThrIleTyrPheArgAspPheArgProLeuLysSpSerArgPheGln 139
OY 181 TTGCTGAATTTTCTAGACAGTGAAGTCAAGTATCATTTGACAAAGCGTCAATTTTGAT 240
DB 140 LeuLeuAsnPheserSerSerGlnLeuLysValSerLeuThrAsnValSerIleSerAsp 159
OY 241 GAAGAAGATACCTTTTCCAGCTCTATACGATCCCGACAGGAAGTTTACACCACATC 300

DB 160 GlnGlyArgTyrPheCysGlnLeuTyrThrAspProProGlnGlnSerTyrThrThrIle 179
OY 301 ACACTCTGCTGCCACACAGTAAATCTGATGATGATATCCAGAAAGCACTGGCGTGAA 360
DB 180 ThrValLeuValProProAsnGlnLeuMetCileSprIleGlnLysAspThrAlaValGlu 199
OY 361 GGTGAGGAGATTGAGTCACACTGCATGCTATGAGCCAGCAAGCAGCAGCAGTATCAGG 420
DB 200 GlnGlnGlnIleGlnValAsnCysThrAlaMetAlaSerLysProAlaThrThrIleArg 219
OY 421 TGGTTCAAGGAGACACAGAGCTAAAGGCAAAATCGAGGTGGAAGAGTGTGACAGATG 480
DB 220 TrpPheLysGlnLysLysGlnLeuLysGlnLysSerGlnValGlnGlnTyrSerAspMet 239
OY 481 TACACTGTGACAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 540
DB 240 TyrThrValThrSerGlnLeuMetLeuLysValHisLysGlnLysAspArgLysValProVal 259
OY 541 ATCTGCGAGGTGAGCAGCAGCTGCGTCACTGGAAGCAAGCTGAGAGCCAGCGTATCTAGAA 600
DB 260 IleCysGlnValGlnHisProAlaValThrGlnLysAsnLeuGlnThrGlnAlaGlyTyrLeuGln 279
OY 601 GTACAGTATAGCTCAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 660
DB 280 ValGlnTyrLysProGlnValHisIleGlnMetThrTyrProLeuGlnGlnLeuThrArg 299
OY 661 GAAGGGAGCGCGTGGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
DB 300 GlnGlnLysPheLysPheGlnLeuThrCysGlnAlaIleLysLysProGlnProValMetVal 319
OY 721 ACTTGGGTGAGTGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 780
DB 320 ThrThrValAlaArgLysAspArgLysMetProGlnHisAlaValLeuSerGlnProAsnLeu 339
OY 781 TTGATCATATACCTTAACAAACAGATATGATGATGATGATGATGATGATGATGATGATG 840
DB 340 PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrTyrArgCysGlnAlaSerAsnIle 359
OY 841 GTGGGGAAAGCTCAGTGGTATATGCTGATGATGATGATGATGATGATGATGATGATGAT 900
DB 360 ValGlnLysAlaHisSerAspTyrMetLeuTyrValTyrAspProProThrThrIlePro 379
OY 901 CCTCCGACAAACAT 960
DB 380 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIle 399
OY 961 ACA-----GATTCCGAGCAGGTGAAGAGCG 987
DB 400 ThrAspThrThrAlaThrThrGlnProAlaValAlaHisAspSerArgAlaGlnGlnGln 419
OY 988 TCGATCAGGCGCAGTGCATC 1008
DB 420 ThrIleGlnValAlaValAspHis 426

RESULT 5
OY 09D6E7 PRELIMINARY: PRT: 336 AA.
AC 09D6E7;
DT 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, last annotation update)
DE 2900073606RIK protein.
GN IGSF4 OR 2900073606RIK.
OS Mus musculus (mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=HIPOCAMPUS;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,

RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Alawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamamata I.,
RA Salto T., Okazaki Y., Goshiori T., Bono H., Kasukawa T., Salto R.,
RA Kadota K., Matsuda H.A., Ashburner N., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochia H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaide I., Pesole G., Quackenbush J.,
RA Schiml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai T., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bull C., Fletcher C., Fujita M., Gariboldi M.,
RA Guertinich S., Hill D., Hofmann M., Hume D.A., Kamaya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombeerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Saeki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyokawa K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
RA Wyszynski A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.,
RT "Functional annotation of a full-length mouse cDNA collection";
RL Nature 409:685-690(2001).
EMBL: AK013775; BAB28988.1; -.
DR MGD: MGI:1889272; I9sf4.
DR InterPro: IPR003599; I9.
DR InterPro: IPR003598; I9.
DR InterPro: IPR003600; I9_c2.
DR InterPro: IPR003006; I9_MHC.
DR Pfam: PF00047; I9_3.
DR SMART: SM00409; I9_3.
DR SMART: SM00408; IGC2; 3.
DR SMART: SM00410; IG_1like; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 336 AA: 37157 MW: FF887FAFEFDE120 CRC64:

Alignment Scores:
Pred. No.: 2,84e-126 Length: 336
Score: 1529.00 Matches: 291
Percent Similarity: 99.328 Conservative: 0
Best Local Similarity: 99.328 Mismatches: 2
Query Match: 84.908 Indels: 0
DB: 11 Gaps: 0

US-09-778-187b-1_COPY_130_1137 (1-1008) x Q9D6E7 (1-336)

OY 1 ATCCCAAGAGTGGAGGAGCAATCTGTTACGAAGAGCTGATCGAGGAGAG 60
DB 42 IIEPOTHTGlyAspelyGlnAsnLeuPheThrlyAspAlaThrValIleGluGlu 61
OY 61 GTTGGAGCATAGTGGCAAGCAATAGAGTGAAGTCTGTGATGAGTACATGAT 120
DB 62 ValAlaThrIleSerGlnValAsnlySerAspAspSerValIleGlnLeuLeuAsn 81
OY 121 CCCAAGAGGAGCAATATTTATTTAGAGGAGTCTTGAAGAGAGAGGTTTCA 180
DB 82 ProAenArgGlnThrIleThrIleThrIleThrIleThrIleThrIleThrIle 101
OY 181 TTGCTGAATTTTCTAGAGTGAAGTCAAGTATTCATTCATTCATTTCTGAT 240
DB 102 LeuLeuAsnPhseSerSerSerGlnLeuLysValSerLeuThrAsnValSerIleSerAsp 121
OY 241 GAAGGAAGTACTTTTGGCAGCTATACCGATCCGCCAGAGAAATGACCCACATC 300
DB 122 GluGlyArgTyrrPheGlyGlnLeuTyrrThrAspProGlnGlnSerTyrrThrThrIle 141
OY 301 ACAGTCTGTGTCACAGCAGTATGATGATGATGATGATGATGATGATGATGAT 360
DB 142 ThrValLeuValProProArgAsnLeuMetIleAspIleGlnLysAspThrAlaValGlu 161
OY 361 GGTGAGAGATTTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 420
DB 162 GlyGluGluIleGluValAsnGlyThrAlaMetAlaSerGlyProAlaThrThrIleArg 181
OY 421 TGGTTCAAAGGAGAACAGTAAAGCAAAATGAGAGTGAAGAGTGAAGAGTGA 480
DB 182 TrpPheLysGlyAsnLysGlnLeuLysGlyLysSerGlnValGluGlnThrPheSerPhe 201

OY 481 TACACTGTGACCAAGTCAAGTGTGATGCTGAAGTGCACAGAGAGAGTGGTCCAGTG 540
DB 202 TyrThrValThrSerGlnLeuMetLeuLysValHisLysGlnAspAspGlyValProVal 221
OY 541 ATCTGCGAGGTGAGAGCACCCTGCGTCACTGGAACCTGACAGCCAGCGGTATCAGA 600
DB 222 IleGlyGlnValGlnHisProAlaValThrGlyAsnLeuGlnThrIleThrIleArg 241
OY 601 GTACAGTATTAAGCTCAATGACATTCAGTACATTCCTCTACAGCGTTAACCGGG 660
DB 242 ValGlnTyrrLysProGlnValHisIleGlnMetThrTyrrProLeuGlnGlyLeuThrArg 261
OY 661 GAAGGAGAGCCCTGTTGATTAACATGTAAGCCATGAGAGAGCCAGCCAGCTGATGTA 720
DB 262 GluGlyAspAlaPheGlnLeuThrGlyGlnValAlaIleGlyLysProGlnProValMetVal 281
OY 721 ACTGGGTGAGAGTCAAGTCAATGATGATGATGATGATGATGATGATGATGAT 780
DB 282 ThrTrpValArgValAspAspGlnMetProGlnHisAlaValLeuSerGlyProAsnLeu 301
OY 781 TTCATCAATTAACCTTAACAAACAGATTAATGATGATGATGATGATGATGATGAT 840
DB 302 PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrTyrrArgGlyGlnAlaSerAsnIle 321
OY 841 GTGGGGAAGCTCACTCGGATTAATGATGATGATGATGATGATGATGATGATGAT 879
DB 322 ValGlyLysAlaHisSerAspGlyMetLeuTyrrValTyrr 334

RESULT 6
Q92ZH8 PRELIMINARY; PRT; 295 AA.
ID Q92ZH8
AC Q92ZH8;
DT 01-MAY-1999 (TrEMBLrel. 10, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE Necln-like protein 2.
GN IGSF4 OR NECL2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Euteria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;
RT "Cloning of a novel cDNA encoding a member of immunosuperfamily.";
RL Submitted (Apr-1998) to the EMBL/Genbank/DBD databases.
DR EMBL: AF061260; AAC67243.1; -.
DR MGD: MGI:1889272; I9sf4.
DR InterPro: IPR003598; I9_c2.
DR InterPro: IPR003600; I9_1like.
DR InterPro: IPR003006; I9_MHC.
DR InterPro: IPR003585; Neurexin-like.
DR Pfam: PF00047; I9_2.
DR SMART: SM00294; 4.Im; 1.
DR SMART: SM00408; IGC2; 1.
DR SMART: SM00410; IG_1like; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 295 AA: 32509 MW: 9DE9D66F6F6F488 CRC64:

Alignment Scores:
Pred. No.: 1.6e-95 Length: 295
Score: 1180.00 Matches: 223
Percent Similarity: 98.68% Conservative: 1
Best Local Similarity: 98.24% Mismatches: 3
Query Match: 65.52% Indels: 0
DB: 11 Gaps: 0

US-09-778-187b-1_COPY_130_1137 (1-1008) x Q92ZH8 (1-295)

OY 328 ATGATCGATATTCAGAAACAGTGGGTGAAGAGTGAAGAGTGAAGTGAAGTGA 387
DB 1 MetIleAspIleGlnLysAspThrAlaValGluGlyGluIleGluValAsnGlyThr 20


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QY 388 GCTATGGCCAGCAAGCCAGCCAGCATATCAGTGGTTCAAGGGAACACAGACTAA 447
    |||
Db 21 AlamelaserlyspProalThrThrIleGrpPheLysglYasnLysglLeuLys 40
QY 448 GCGAAATCGGAGGTGGGAAGAGTGTGTGACATGTACACTGTGACCACTGACTATGCTG 507
    |||
Db 41 GilysserGlunValGlunGluTrpSerAspMetYrThrValThrSerGlnLeuMetLeu 60
QY 508 AAGGTGCACAAGAGAGACAGTGGGGTCCAGTGTCTGCGAGTGGAGACCCCTGCGGTC 567
    |||
Db 61 LysValHisLysglunAspAspGlyValProValIleCysGlnValGlnHisProAlaVal 80
QY 568 ACTGGAACCTGCAGACCCAGCGGTATCTAGAACTAGATATAAGCTCAAGTGCACATT 627
    |||
Db 81 ThrGlysnLeuGlnThrGlnArgYrLeuGlnValGlnTrpLysProGlnValHisIle 100
QY 628 CAGATGACTTATCCTCTACAAAGGCTTAACCCGGGAAGGGAGCGGCTTGAGTTAACTGT 687
    |||
Db 101 GlnMetThrYrProLeuGlnGlyLeuThrArgGlnGlysnPalapheGlnLeuThrCys 120
QY 688 GAAGCCATCGGGAAGCCCGAGCTGTGATGTAAGTGGTGAGAGTGCATGATGAATG 747
    |||
Db 121 GlunAlaIleGlyLysProGlnProValMetValThrTrpValArgValAspAspGlnMet 140
QY 748 CCTCAACACGCCGTACTGTCTGGGCCCAACCTGTCATCAATAACCTAAACAAACAGAT 807
    |||
Db 141 ProGlnHisAlaValLeuSerGlyProAsnLeuPheIleAsnLeuAsnLysThrAsp 160
QY 808 AATGGTCAATACCGCTGGAAGCTTCAACATAGTGGGGAAGAGCTGCATGGATTATATG 867
    |||
Db 161 AsnGlyThrYrArgCysGlunAlaSerAsnIleValGlysnAlaHisSerAspTYrMet 180
QY 868 CTGTATGTATACATCCCGCCACAACTATCCCTCTCCCAACAACACACACACACACC 927
    |||
Db 181 LeuTYrValLysrAspProProThrThrIleProProProThrThrThrThrThrThr 200
QY 928 ACCACACACACACACACATCTTACCATCATCACAGATTCCGAGCAGGTGAAGAAGC 987
    |||
Db 201 ThrThrThrThrThrThrThrIleLeuThrIleIleThrAspSerArgAlaGlyGlnGly 220
QY 988 TCGATCGGCGCAGTGGATCAT 1008
    |||
Db 221 ThrIleGlyAlaValAspHis 227

RESULT 7
O90YL4 PRELIMINARY: PRT: 306 AA.
AC O90YL4;
DT 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, last annotation update)
DE Adhesion protein RA175C.
GN IGSP4 OR RA175C.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCB1_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Soyama A., Fujita E., Urabe K., Mukasa T., Kouroku Y., Momoi M.,
RA Momoi T.;
RT "RA175, a novel neuron specific adhesion protein.";
RL Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB021966; BAA87916.1;
DR MGD: MGI:1889272; Igsf4.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_C2.
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR003585; Neurexin-like.
DR Pfam: PF00047; Ig_2.
DR SMART: SM00294; 4.1m; 1.
DR SMART: SM00408; ICG2; 1.

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DR SMART: SM00410; IG_-like; 1.
KW Immunoglobulin domain.
SO SEQUENCE 306 AA; 33522 MW; A4CE3780F2354D5 CRC64;

Alignment Scores:
Pred. No.: 1.55e-93 Length: 306
Score: 1157.50 Matches: 222
Percent Similarity: 94.12% Conservative: 2
Best Local Similarity: 93.28% Mismatches: 3
Query Match: 64.27% Indels: 11
DB: 11 Gaps: 1

US-09-778-187b-1_copy_130_1137 (1-1008) x O90YL4 (1-306)
QY 328 ATGATCATATCCAGAAAGACACTGCGGTGGAAGTGAAGATTAAGTCAACTGCATC 387
    |||
Db 1 MetIleAspIleGlnLysAspThrAlaValGlnGlyGlnIleGlnValAsnGlyThr 20
QY 388 GCTATGGCCAGCAAGCCAGCCAGCATATCAGTGTGTTCAAGGGAACACAGACTAA 447
    |||
Db 21 AlamelaserlyspProalThrThrIleArgTrpPheLysglYasnLysglLeuLys 40
QY 448 GCGAAATCGGAGGTGGGAAGAGTGTGTGACATGTACACTGTGACCACTGACTATGCTG 507
    |||
Db 41 GilysserGlunValGlunGluTrpSerAspMetYrThrValThrSerGlnLeuMetLeu 60
QY 508 AAGGTGCACAAGAGAGACAGTGGGGTCCAGTGTCTGCGAGTGGAGACCCCTGCGGTC 567
    |||
Db 61 LysValHisLysglunAspAspGlyValProValIleCysGlnValGlnHisProAlaVal 80
QY 568 ACTGGAACCTGCAGACCCAGCGGTATCTAGAACTAGATATAAGCTCAAGTGCACATT 627
    |||
Db 81 ThrGlysnLeuGlnThrGlnArgYrLeuGlnValGlnTrpLysProGlnValHisIle 100
QY 628 CAGATGACTTATCCTCTACAAAGGCTTAACCCGGGAAGGGAGCCGCTTGAGTTAACTGT 687
    |||
Db 101 GlnMetThrYrProLeuGlnGlyLeuThrArgGlnGlysnPalapheGlnLeuThrCys 120
QY 688 GAAGCCATCGGGAAGCCCGAGCTGTGATGTAAGTGGTGAGAGTGCATGATGAATG 747
    |||
Db 121 GlunAlaIleGlyLysProGlnProValMetValThrTrpValArgValAspAspGlnMet 140
QY 748 CCTCAACACGCCGTACTGTCTGGGCCCAACCTGTCATCAATAACCTAAACAAACAGAT 807
    |||
Db 141 ProGlnHisAlaValLeuSerGlyProAsnLeuPheIleAsnLeuAsnLysThrAsp 160
QY 808 AATGGTCAATACCGCTGGAAGCTTCAACATAGTGGGGAAGAGCTGCATGGATTATATG 867
    |||
Db 161 AsnGlyThrYrProCysGlunAlaSerAsnIleValGlysnAlaHisSerAspTYrIle 180
QY 868 CTGTATGTATACATCCCGCCACAACTATCCCTCTCCCAACAACACACACACACACC 927
    |||
Db 181 LeuTYrValLysrAspProProThrThrIleProProProThrThrThrThrThrThr 200
QY 928 ACCACACACACACACATCTTACCATCATCACAGATTCCGAGCAGGTGAAGAAGC 983
    |||
Db 201 ThrThrThrThrThrThrThrIleLeuThrIleIleThrAspThrThrAlaThrThrGluPro 220
QY 964 -----GATCCGAGCAGGTGAAGTGCATCATCGGCGACGTGATCAT 1008
    |||
Db 221 AlaValHisAspSerArgAlaGlyGlnGlyThrIleGlyAlaValAspHis 238

RESULT 8
O90YL6 PRELIMINARY: PRT: 295 AA.
AC O90YL6;
DT 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, last annotation update)
DE Adhesion protein RA175A.
GN IGSP4 OR RA175A.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

```



```

Db 121 GlnAlaIleGlyLysProGlnProValMetValThrTrpValArgValAspSgIuMet 140
QY 748 CCTCAACAGCGCGTACTGTCTGGGCCCAACCTGTCATCATATACTAAACAAAACAGAT 807
Db 141 ProGlnHisAlaValLeuSerGlyProAsnLeuPheIleAsnAsnLeuAsnLysThrAsp 160
QY 808 AATGATACATACCGCTGTGAAGCTTCAACACTAGTGGGGAAGAGCTACTCGATTATATG 867
Db 161 AsnLysThrTyProCysGlnAlaSerAsnIleValGlyLysAlaHisSerAspTyIle 180
QY 868 CTGATGATACGATCCCGCCACACTATCCCTCTCCCAACACACACACACACCCACC 927
Db 181 LeuTyValIlyTrAspTrhTrhTrhTrhIle-----LeuThrIleIle 194
QY 928 ACCACACACACACACACACACATCTTACCATCATCAGATTCGCGAGAGTGAAGAGGC 987
Db 195 ThrAspTrhTrhAlaTrhTrhTrhGluProAlaValHisAspSerAlaGlyGluGluGly 214
QY 988 TCGATCAGGCGCATGATCAT 1008
Db 215 ThrIleGlyAlaValAspHis 221

```

RESULT 10

```

O9OYL3
ID O9OYL3 PRELIMINARY; PRT; 278 AA.
AC O9OYL3;
DT 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Adhesion protein RAI175N.
GN IGSF4 OR RAI175N.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Soyama A., Fujita E., Urabe K., Mukasa T., Kouroku Y., Momoi M.,
RA Momoi T.;
RT "RAI175, a novel neuron specific adhesion protein.";
RL Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL: AB021967; BAA87917.1; -.
DR MGD: MGI:1869272; I9Sf4.
DR InterPro: IPR003598; I9.C2.
DR InterPro: IPR003600; I9.Like.
DR InterPro: IPR003006; I9.Like.
DR InterPro: IPR003585; Neurexin-like.
DR Pfam: PF00047; I9.2.
DR SMART: SM00294; 4.1m; 1.
DR SMART: SM00408; I9C2; 1.
DR SMART: SM00410; I9.Like; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 278 AA; 30636 MW; A295F4DEA2724B04 CRC64;

```

Alignment Scores:

```

Pred. No.: 8.03e-82 Length: 278
Score: 1024.50 Matches: 198
Percent Similarity: 88.55% Conservative: 3
Best Local Similarity: 87.22% Mismatches: 9
Query Match: 56.89% Indels: 17
DB: 11 Gaps: 1

```

US-09-778-187b-1_copy_130_1137 (1-1008) x O9OYL3 (1-278)

```

QY 328 ATGATCATATCCAGAAAGACATCGCGGTGAAGGTGAGAGATTGAGTCACTGCATC 387
Db 1 MetIleAspIleGlnLysAspTrhAlaValGluGlyGluIuIleGluValAsnCysThr 20
QY 388 GCTATGGCGCAGCAAGCGACGACATATCAGGTGCTTCAAGGAAACACAGAGCTTAAA 447
Db 21 AlMetAlaSerLysProAlaTrhTrhTrhIleArgTrpPheLysGlyAsnLysGluLeuLys 40

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```

QY 448 GCGAATCGAGGTGGAGAGAGTSGTCAGACATGTACACTGTGACCAGTCACTGATCTGT 507
Db 41 GlyLysSerGluValGluGluTrpSerAspMetTyThrValThrSerGlnLeuMetLeu 60
QY 508 AAGGTGCACAGAGGAGGAGATGGGCGCATGTCTGCGAGGTGGAGACCCCTGCGGTC 567
Db 61 LysValHisLysGluAspAspGlyValProValIleCysGlnValGluHisProAlaVal 80
QY 568 ACTGAAACCGCGACACCCAGCGGTATCTAGAACTAGATTAAGCTCAAGTGCACATT 627
Db 81 ThrLysLysLeuGlnTrhGlnArgTyLeuGlnValGlnTrhLysProGlnValHisIle 100
QY 628 CAGATGACTTATCTCTTACACAGGCTTACCCGGAGAGGAGCGGCTTGAGTTAACATGT 687
Db 101 GlnMetThrTyProLeuGlnGlyLeuThrArgGluGlyAspAlaLeuGluLeuThrCys 120
QY 688 GAACCCATCGGGAAGCCCGACCCCTGTATGTATCTGGGTGGAGAGTCGATGAGGAATG 747
Db 121 GlnAlaIleGlyLysProGlnProValMetValTrhTrpValArgValAspSgIuMet 140
QY 748 CCTCAACAGCGCGTACTGTCTGGGCCCAACCTGTCATCATATACTAAACAAAACAGAT 807
Db 141 ProGlnHisAlaValLeuSerGlyProAsnLeuPheIleAsnAsnLeuAsnLysThrAsp 160
QY 808 AATGATACATACCGCTGTGAAGCTTCAACACTAGTGGGGAAGAGCTACTCGATTATATG 867
Db 161 AsnLysThrTyProCysGlnAlaSerAsnIleValGlyLysAlaHisSerAspTyIle 180
QY 868 CTGATGATACGATCCCGCCACACTATCCCTCTCCCAACACACACACACACCCACC 927
Db 181 LeuTyValIlyTrAsp----- 185
QY 928 ACCACACACACACACACACATCTTACCATCATCAGATTCGCGAGAGTGAAGAGGC 987
Db 186 -----ThrTrhAlaTrhTrhGlnProAlaValHisAspSerAlaGlyGluGluGly 203
QY 988 TCGATCAGGCGCATGATCAT 1008
Db 204 ThrIleGlyAlaValAspHis 210

```

RESULT 11

```

ID O8R464 PRELIMINARY; PRT; 388 AA.
AC O8R464;
DT 01-JUN-2002 (TREMBLrel. 21, Created)
DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Membrane glycoprotein.
GN TSL2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=129/SVJ;
RA Fukami T., Maruyama T., Murakami Y.;
RT "Identification of a murine ortholog of the TSLC1-like gene 2.";
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL: AY059394; AAL29692.1; -.
SQ SEQUENCE 388 AA; 42723 MW; 8E3A9DF1C3B9D23E CRC64;

```

Alignment Scores:

```

Pred. No.: 2.58e-46 Length: 388
Score: 622.00 Matches: 123
Percent Similarity: 61.06% Conservative: 62
Best Local Similarity: 40.59% Mismatches: 112
Query Match: 34.54% Indels: 6
DB: 11 Gaps: 3

```

US-09-778-187b-1_copy_130_1137 (1-1008) x O8R464 (1-388)

```

QY 10 GGTGATGGCGCAGAACTGTTTACGAAAGACGTGACAGTATCGAGGAGAGGTTGCGACC 69

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```
DB 22 G1YThc1ynglnsluValc1n1nThrglnsluValThrValAlaGluc1ygluValAlaGlu 41
OY 70 ATGAGTTCGACGATTAAGAGTACGAGCATGTGTCAGTACGATGATCCCAACAGG 129
DB 42 11ethrcysArgrleuThs1n1yTgrsPglYser1leVal11leGlnsluAnPrroAlaArg 61
OY 130 CAGACGATTAATTTTACAGGAGCTTTCAGAGCAGACAGAGCTTTCAGTTCAGTTCAGT 189
DB 62 G1n1ThleuTherheAnsnG1yThrAlaValleuThsArspGluAnrPrheGlnleuGlnGlu 81
OY 190 TTTTTCAGCAGTGAATCAAAAGTATGATGACAAAGCTTCATTTCTGATGAAGAGA 249
DB 82 PheserProArgrValArg1leArg1leuSerArspAlaArg1leuGlnsluArspGlnGlu 101
OY 250 TACTTTTGGCAGCTTCATACGATCCCGCCACAGGAAGTACACCCAGTACAGCTGCTG 309
DB 102 TyrrheCysGlnleuTyrrThrglnuArPrThn1n1n1n1n1n1n1n1n1n1n1n1n1 121
OY 310 GTCCGACGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 369
DB 122 ValAlaPrroGlnsluAnPrroVal1n1GluVal1--Arg1nGln1n1n1n1n1n1n1n1 140
OY 370 ATTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 429
DB 141 ValGlnleuSerCysleuVal1ProArgrSerArgrProAlaAlaValleuArgrPrTyArg 160
OY 430 GGGAGACGACGATTAAGGCAATACGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGT 489
DB 161 AsparGlnsluGlnleuTyrrGlnValSerSerGlnGlnsluAnGlnTyrrPrSerVal 180
OY 490 ACCAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 549
DB 181 AlaSerThrValArgrPrheArgrValArspArgrGlnsluGlnleuVal1n1n1n1n1n1 200
OY 550 GTGAGCAGCTCGCGGCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 603
DB 201 AlAGlnAnsnGln1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1 220
OY 604 CAGTATTAAGCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 663
DB 221 GlnTyrrSerPrroThrAlaArg1leuThsArsp1n1n1n1n1n1n1n1n1n1n1n1n1 237
OY 664 GGGAGCAGCTTCGATTAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 723
DB 238 G1YArPrThrleuVal1leuThrCysAlaVal1n1n1n1n1n1n1n1n1n1n1n1n1 257
OY 724 TGGGTGAGCTCATGATCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 783
DB 258 TyrrAsnArgrGlnsluAnGlnSerleuPrroGlnArgAlaGln1n1n1n1n1n1n1n1 277
OY 784 ATCAATTAAGCTTAAGCAAAACAGATTAATGATGATGATGATGATGATGATGATGATGAT 843
DB 278 leuPrroGlnleuVal1SerAlaArspAnsnG1yThrTyrrThrcysGlnsluAlaArsp1n1n1 297
OY 844 GCGAAAGCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 903
DB 298 G1Yn1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1 317
OY 904 CCCACACA 912
DB 318 GlnThrSer 320

RESULT 12
09Y4A4 PRELIMINARY: PRT: 381 AA.
AC 09Y4A4;
DT 01-NOV-1999 (Tremblrel. 12, Created)
DT 01-JUN-1999 (Tremblrel. 12, Last sequence update)
DE P22162_1 (Fragment).
OS Homo sapiens (human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
```

```
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Lamerdin J.E., McCreedy P.M., Skowronski E., Adanson A.W.,
RA Burkhardt-Schulze K.J., Gordon L., Kyle A., Ramirez M., Stillwagen S.,
RA Phan H., Velasco N., Do L., Regala W., Terry A., Gaines J.,
RA Dangnan L., Poundstone P., Christensen M., Georgescu A., Avila J.,
RA Liu S., Atlix C., Andelse T., Frankheim M., Amico-Keller G.,
RA Coefield J., Duarte S., Lucas S., Bruce R., Thomas P., Quan G.,
RA Krommiller B., Arellano A., Montgomery M., Ow D., Nolan M., Trong S.,
RA Kobayashi A., Olsen A.S., Carrano A.V.,
RT "Sequence analysis of a 2.5 Mb region in 19q13.2 containing a
RT clustered CEA/PSG gene family."
RL Submitted (AUG-1998) to the EMBL/Genbank/DBJ databases.
DR EMBL: AC005525; AAC32740.1; -.
DR HSSP: P80748; 2LOT.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR003585; Neurexin-Like.
DR Pfam: PF00047; Ig_3.
DR SMART: SM00294; 4.1m; 1.
DR SMART: SM00408; IgC2; 1.
DR SMART: SM00410; Ig_Like; 2.
KW Immunoglobulin domain.
FT NON_TER
SO SEQUENCE 381 AA; 41787 MW; 315420836FPDC05 CRC64;

Alignment Scores:
Pred. No.: 3.59e-45 Length: 381
Score: 609.00 Matches: 126
Percent Similarity: 58.39% Conservative: 62
Best Local Similarity: 39.13% Mismatches: 120
Query Match: 33.81% Indels: 14
DB: 4 Gaps: 5

US-09-778-187b-1_COPY_130_1137 (1-1008) x 09Y4A4 (1-381)
OY 16 GGGAGCAATGCTGTTTAAAGAGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 75
DB 2 G1Yn1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1 21
OY 76 TGGCAAGTCAATTAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 135
DB 22 CysArgrleuThs1n1yTgrsPglYser1leVal11leGlnsluAnPrroAlaArg1nThr 41
OY 136 ATTATTTCAAGGACTTCAGGCTTTCAGAGCAGCAGGTTTCAGTTCAGTTCAGTTCAGT 195
DB 42 leuPrheheAnsnG1yThrArgrAlaValleuThsArspGlnsluArprheGlnleuGlnsluPrheSer 61
OY 196 AGCAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 255
DB 62 ProArgrArgValArg1leArg1leuSerArspAlaArg1leuGlnsluArspGlnsluTyrrPhe 81
OY 256 TGGCAGCTCATACGATTCGCCACAGAAAGTTTACACACATGATGATGATGATGATGATGAT 315
DB 82 CysGlnleuTyrrThrglnuArPrThn1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1n1 101
OY 316 CCAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 375
DB 102 ProGlnsluAnPrroVal1n1GluVal1--Arg1nGln1n1n1n1n1n1n1n1n1n1n1n1 120
OY 376 GTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 435
DB 121 leuSerCysleuVal1ProArgrSerArgrProAlaAlaThrleuThrTyrrTyrrArgArgr 140
OY 436 ACAGAGCTAAAGCAAAATGCGAGTGGAGAGTGTGACAGATGATGATGATGATGATGATGAT 495
DB 141 TyrrGlnleuTyrrGlnsluValSerSerSerGlnsluAnsnG1yVal1TyrrSerValArsp 160
OY 496 CAGCTGATGCTGAAGTGCACAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 555
DB 141 TyrrGlnleuTyrrGlnsluValSerSerSerGlnsluAnsnG1yVal1TyrrSerValArsp 160
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Db 161 ThrValArgPheArgValAspArgLysAspArgLysIleIleCysGlnAlaGln 180
QY 556 CACCCCTGGCGTCACTGGA-----AACCTGCAGACCCGCGTATCTGAGTACAGTAT 609
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 181 AsnGlnAlaLeuProSerGlyHisSerLysGlnThrGlnIleValLeuAspValGlnIyr 200
QY 610 AAGCTTCAAGTGCACATTACAGTACTATCTCTACAGGCTTAAACCCGGGAAGGAG 669
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 201 SerProThrAlaArgIleHisAlaSer-----GlnAlaValAlaArgGluGlyAsp 217
QY 670 GCGCTGAGTATGATGAGTGGAGCCATGGGAGGCCCGCTGTGATGATGATGATGATG 729
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 218 ThrLeuValLeuThrCysAlaValAlaThrGlyAsnProArgProAsnGlnIleArgTrpAsn 237
QY 730 AGACTCGATGATGAATATGCTCAACACGCCCTGCTGCTGGGCCCAACCTGTATCAT 789
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 238 ArgGlyAsnGlnSerLeuArgProGluArgAlaGlnAlaValGlyGluThrLeuThrLeuPro 257
QY 790 AACCTAAACAACAAAGATATGATGATACATACCGCTGTGAGCTTGAACATATGTGGGAAA 849
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 258 GlyLeuValSerAlaAspAsnGlyThrTyThrCysGlnAlaSerAsnLysHisGlyHis 277
QY 850 GCTACATCGGATATATGCTGTATGCTATGATGATGATGATGATGATGATGATGATG 894
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 278 AlaArgAlaLeuThrValLeuValValIleGlyLeuSerArgLeuArgProThrGluGly 297
QY 895 -----ATCCCTCTCCCAACAACAACACACACACACACACACACACACACACAC 945
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 298 GlyGlyGlyAlaProAspProGlyAlaValAlaGlnIleGlnThrSerValProTyrAla 317
QY 946 ATCCCTT 951
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 318 IleVal 319

RESULT 13
Q99N28 PRELIMINARY; PRT; 396 AA.
ID 099N28;
AC 099N28;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
DE Nectin-like protein 1 (Membrane glycoprotein).
GN NECTN1 OR TSLL1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Zhou Y., Huang X., Yuan J., Qiang B.;
RT "Cloning and expression analysis of novel mouse cDNA encoding a
RL membrane protein.";
RN Submitted (OCCT-1999) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA STRAIN=129/SVJ;
RA Fukami T., Maruyama T., Murakami Y.;
RT "Identification of a murine ortholog of the TSLL1-like gene 1.";
RL Submitted (OCCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL: AF195662; AAG35584.1; -
DR EMBL: AY059393; AAL29691.1; -
DR MGD: MGI:2137858; Nectn1.
DR InterPro: IPR003599; Ig.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003006; Ig_MHC.
DR Pfam: PF00047; Ig_3.
DR SMART: SM00409; Ig_3.
DR SMART: SM00408; IgC2; 3.
DR SMART: SM00410; IG_Like; 2.
KM Immunoglobulin domain.
SQ SEQUENCE 396 AA: 42964 MW: 41ADP8B57D141F3A CRC64:

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Alignment Scores:
Pred. No.: 5,12e-34 Length: 396
Score: 482.50 Matches: 110
Percent Similarity: 55.63% Conservative: 63
Best Local Similarity: 35.37% Mismatches: 119
Query Match: 26.79% Indels: 19
DB: 11 Gaps: 7

US-09-778-187b-1_copy_130_1137 (1-1008) x Q99N28 (1-396)
QY 13 GATGGGCGAGATCTGTTTACGAAGACGTGACATGATCGAGGAGAGAGTTGCCAGCATC 72
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 27 AspAspSerGlnProThrThrSerAspGlnThrValAlaGlnGlyThrValValLeu 46
QY 73 AGTGGCCAACTCAATTAAGAGTGAAGACAGCTGTGATGATGATGATGATGATGATGATG 132
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 47 LysCysGlnValLysAspHisGlnAspSerSerLeuGlnTrpSerAsnProAlaGlnGln 66
QY 133 ACCATTTATTTTCAAGGACCTTCAGGCTTTTGAAGACAGACAGGTTTCAAGTTGTAATTT 192
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 67 ThrLeuThrPheGlyGlyLysArgAlaLeuArgAspAsnArgIleGlnLeuValSerSer 86
QY 193 TCTGACAGTGAACCTCAAGATATCATTTGACAAACCTCTCAATTTCTGATGAAGAAATAC 252
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 87 ThrProHisGlnLeuSerIleSerIleSerAsnValAlaLeuAlaAspGluGlyIle 106
QY 253 TTTTGCACAGCTCTATACCGATCCCCACAGCAAGAAATTAACACCATCATCAGTCTCTGTC 312
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 107 ThrCysSerIlePheThrMetProValArgThrAlaLysSerLeuValThrValLeuGly 126
QY 313 CCACACGTAATCTGATGATGATGATATCCAGAAGACACTGGCGTGAAGGTGAGGAGATT 372
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 127 IleProGlnLysProIleIleThrGlyTyThrLysSerSerLeuArgGluTyThrAla 146
QY 373 GAATGCAACTGCACTGATATGCGCCAGCAAGCCACACGACATATCAGTGGTTAAAGG 432
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 147 ThrLeuAsnGlnSerGlnSerGlySerIleSerProAlaIleGlnLeuThrTyArgLysGly 166
QY 433 AACACAGAGCTAAAGAGC-----AAATCGAGAGTGAAGAGTGGTGCAGC-----ATGTAC 483
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 167 AspGlnGlnLeuHisGlnAspGlnThrArgIleGlnGlnAspProAsnGlyLysThrPhe 186
QY 484 ACTGTACACCACTGACGTGATGCTGAAGGTGCACAGAGACAGATGGGGTCCAGTATC 543
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 187 ThrValSerSerSerValSerPheGlnValThrArgGlnAspArgGlyAlaAsnIleVal 206
QY 544 TGCAGGTGGAGGACACCTCGGCTGACCTGGA-----AACCTGCAGACCCAGCGGTATCTGAA 600
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 207 CysSerValAsnHisGlnSerLeuLeuLysGlyAlaAspArgSerThrSerGlnArgIleGln 226
QY 601 GTACAGTATAGGCTCAAGTGCACATTCAGATGACTTATCTCTACAAAGCTTAAACCCG 660
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 227 ValLeuThrThrProThrAlaMetIleArg-----ProGluProAlaHisProArg 243
QY 661 GAAGGAGACGGCTTGAGTTAAACATGTGAAGCCATCGGGAAGCCCAACCTGTGATGTA 720
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 244 GluIleGlnLysLeuLeuLeuHisCysGluGlyArgLysAsnProValProGlnGlnItyr 263
QY 721 ACTTGGGTGGAGAGTCAGATGAATAGCCT-----CAACAGCGGCTAGTCTGT 768
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 264 ValTrpValLysGlnGlySerGlnProProLeuLysMetThrGlnSerLeuAlaLeuIle 283
QY 769 GGGCCCAACCTGTTCATCAATTAACCTTAACAAACAGATATGATGATGATGATGATGATG 828
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 284 PhePro-----PheLeuAsnLysSerSerPheGlyThrGlyCysCysThr 298
QY 829 GCTTCAAAACATAGTGGGAAAGCTCACTCGGATTAATGCTGATATGATGATGATGATGATG 888
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 299 AlaThrSerAsnMetGlySerTyThrAlaTyThrThrLeuAsnValaAspProSer 318
QY 889 ACAACATATCCCTCTCCCAACAACAACACACACAC 921
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 319 -----ProValProSerSerSerThr 326

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RESULT 14
090UP1      PRELIMINARY;      PRT:      432 AA.
ID          090UP1
AC          090UP1:
DT          01-MAY-2000 (TRENBLREL. 13, Created)
DT          01-MAY-2000 (TRENBLREL. 13, Last sequence update)
DT          01-JUN-2002 (TRENBLREL. 21, Last annotation update)
DE          BK134P22.1 (Novel protein similar to mouse IMMUNOSUPERFAMILY protein
DE          BL2) (NECTRIN-like protein 1).
GN          BK134P22.1 OR NECL1.
OS          Homo sapiens (Human).
OC          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC          Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX          NCBI_TaxID=9606;
RN          [1]
RP          SEQUENCE FROM N.A.
RA          Bagutley C.;
RL          Submitted (AUG-1999) to the EMBL/Genbank/DBJ databases.
RN          [2]
RP          SEQUENCE FROM N.A.
RA          Zhou Y., Du G., Yuan J., Qiang B.;
RL          Submitted (APR-2001) to the EMBL/Genbank/DBJ databases.
DR          EMBL; AL035403; CAB56227.1; -.
DR          EMBL; AF062733; AAD1540.2; -.
DR          InterPro: IPR003598; Iq_C2.
DR          InterPro: IPR003600; Iq_Like.
DR          InterPro: IPR003006; Iq_MHC.
DR          InterPro: IPR003585; Neurexin-like.
DR          Pfam: PF00047; Iq_3.
DR          SMART; SM00294; 4.Im; 1.
DR          SMART; SM00408; IGC2; 1.
DR          SMART; SM00410; IG_Like; 2.
KW          Immunoglobulin domain.
SQ          SEQUENCE 432 AA; 47020 MW; ACA74EECCAC518C CRC64;

Alignment Scores:
Pred. No.:      7.29e-33      Length:      432
Score:          469.50        Matches:      105
Percent Similarity: 55.96%    Conservative: 64
Best Local Similarity: 34.77% Mismatches:    122
Query Match:    26.07%       Indels:       11
DB:             4            Gaps:        6

US-09-778-187b-1_copy_130_1137 (1-1008) x 090UP1 (1-432)

OY          28 TTATCAAGACGCTGACATGATCGAGGAGAGGTTGCACCATCATGTTGCCAAGTCAT 87
DB          :||||| ||| |||||||: ||| :||| |||||||
68 TTPThSerAspGluThrValAlaLagLyGlyThrValLeuValLeuLysCysGlnValLys 87
OY          88 AAGAGTACGACTCTGTGATTCAGTACTGAAATCCACAGCAGACCAATTTATTTACGAG 147
DB          :||||| ||| ||||||| ||||||| ||||||| ||||||| |||||||
88 ASPHLAGAspSerSerLeuGlnTPRserAsnProAlaGlnInLthrLeuTyrrPheGly 107
OY          148 GACTTCAGCGCTTTGAGAGACAGCAGGTTTGCAATTTTCTAGCAAGTCAATC 207
DB          :||| ||| |||:||||| ||| |||: ||| |||: ||| |||
108 GltysArgAlaLeuArgAspAsnArgIleGlnLeuValThrSerThrProHisGlnLeu 127
OY          208 AAGATATCTTTCAGCAACCTTCATTTCTGATGGAAGGAAGTACTTTTGCCAGCTCTAT 267
DB          :||| ||| |||:||||| ||| |||: ||| |||: ||| |||
128 SerIleSerIleSerAsnValAlaLeuAlaAspGluGlyGlyThrThrCysSerIlePhe 147
OY          268 ACCGATCCCCCAGAGAAATTAACACACATCACAGCTCTGCTCCACAGCTAATCTG 327
DB          ||| ||| :||| :||| :||| :||| :||| :||| :||| :|||
148 ThrMetProValArgThrAlaLysSerLeuValThrValLeuGlyIleProGlnLysPro 167
OY          328 ATGATCATATTCAGAAAGACACTCGGCTGGAAGAGTGAAGATTTGAATGCAATGCACT 387
DB          :||| ||| ||| :||| :||| :||| :||| :||| :||| :|||
168 IleIleThrGlyTyrLysSerSerLeuArgGluLysAspThrAlaThrLeuAsnGln 187
OY          388 GGTATGGCCAGAGACCCACACGACTATCAGGTGTTAAAGGGAACACAGACGTAAAA 447
DB          :||| ||| ||| ||| ||| :||| :||| :||| :||| :|||
188 SerSerGlySerLysProAlaAlaArgLeuThrTPRArgLysGlyAspGlnLeuHis 207

```

```

OY          448 GGCAAA--TSCGAGGTGGAAGAGTGGTCAGAC-----ATGACACTGTGACCACTGAC 498
DB          :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
208 GltysLysProThrArgIleGlnGlnLysAspProAsnGlyLysThrPheThrValSerSer 227
OY          499 CTGATGCTTAAGGTGCACAGAGAGACGATGGGGTCCAGTATCTGCGCAGGTGGAGAC 558
DB          :||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
228 ValThrPheGlnValThrArgGlnAspArgIleAlaSerIleValSerValAsnHis 247
OY          559 CCGGCGCTAGCTGA--AACSTGCAGACCCAGCGGCTATCTAGAACTAGATAGTAAAGCT 615
DB          :||| :||| ||| :||| :||| :||| :||| :||| :||| :|||
248 GltSerLeuLysGlyAlaLysArgSerThrSerGlnArgIleGlnValLeuTyrrPhePro 267
OY          616 CAAGTGCACATTCAGATGACTATTCCTTAACAAGCTTAACCGGAGAGGAGCGGCTT 675
DB          :||| :||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
268 ThrAlaMetIleArgProAspProPro-----HisProArgGlnGlyGlnLysLeu 284
OY          676 GAGTTAACAATTCGAAGACCCATCGGGAAGCCCAAGCTGTATGTTAACTTTGGTGAAGTC 735
DB          ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
285 LeuLeuHisCysGlyLysArgGlyAsnProValProGlnGlnTyrrLeuTyrrLys--- 303
OY          736 GATGATGAATGCGCTCAACAGCGCGCTGCTGGGCCCAACCTGTTCATCATATACTA 795
DB          :||| :||| ||| :||| :||| :||| :||| :||| :||| :|||
304 GltGlySerValProProLeuLysMetThrGlnGlnLysSerAlaLeuIlePheProPheLeu 323
OY          796 AACAAAACAGATATATGTCATACACGCTGTGAAGCTTCAACAATAGTGGGAAAGCTCAC 855
DB          :||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
324 AsnLysSerAspSerGlyThrTyrrGlyCysThrAlaThrSerAsnMetGlySerTyrrLys 343
OY          856 TCGGATTAATGCTGTATGATATACATCCCGCCACACACTATCCCTCTCCACACACACC 915
DB          :||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
344 AlaTyrrTyrrThrLeuAsnValAsnAspProSer-----ProValProSerSer 360
OY          916 ACCAAC 921
DB          :||| :||| ||| :||| :||| :||| :||| :||| :||| :|||

RESULT 15
09D006      PRELIMINARY;      PRT:      549 AA.
ID          09D006
AC          09D006:
DT          01-JUN-2001 (TRENBLREL. 17, Created)
DT          01-JUN-2001 (TRENBLREL. 17, Last sequence update)
DE          01-DEC-2001 (TRENBLREL. 19, Last annotation update)
DE          2610301B19R1K protein.
GN          2610301B19R1K.
OS          Mus musculus (Mouse).
OC          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC          Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX          NCBI_TaxID=10090;
RN          [1]
RP          SEQUENCE FROM N.A.
RA          STRAIN=C57BL/6J; TISSUE=EMBRYO;
RA          MEDLINE=21085660; Pubmed=11217851;
RA          Kawai J., Shimagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA          Araiawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
RA          Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanae I.,
RA          Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA          Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA          Fleischmann W., Gaasterland T., Gissi C., King B., Kochiya H.,
RA          Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA          Schriml L.M., Staubl F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA          Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA          Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA          Bronstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA          Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA          Lyons P., Marchionni L., Mashima J., Mazzaresli J., Mombaerts P.,
RA          Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA          Sasaki H., Sato K., Schoenbach C., Seye T., Shibata Y., Storch K.-F.,
RA          Suzuki H., Toyo-oka K., Wang K.H., Weltz C., Whitteker C., Wilming L.,
RA          Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA          Hayashizaki Y.;
RT          "Functional annotation of a full-length mouse cDNA collection."

```

RL Nature 409:685-690(2001).
 DR EMBL: AK011949; BAB27933.1; -
 DR MGD: MG1:1914402; 2610301B19rik.
 DR InterPro: IPR003599; Ig.
 DR InterPro: IPR003600; Ig_Like.
 DR InterPro: IPR003006; Ig_MHC.
 DR Pfam: PF0047; Ig; 2.
 DR SMART: SM00409; Ig; 1.
 DR SMART: SM00410; Ig_Like; 1.
 DR SQUENCE 549 AA; 60703 MW; 32775CBE0719B32 CRC64;

Alignment Scores:

Pred. No.:	5,44e-18	Length:	549
Score:	301.00	Matches:	93
Percent Similarity:	44.29%	Conservative:	66
Best Local Similarity:	25.91%	Mismatches:	158
Query Match:	16,71%	Indels:	42
DB:	11	Gaps:	11

US-09-778-187b-1_COPY_130_1137 (1-1008) x Q9D006 (1-549)

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OY 16 GGGCAGAAATCTGTTTACGAAAGAGTCAGTGTGAGGAGGAGGTTGGACCATCAGT 75
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 58 GlysSerIleIleValGluProHisValThrAlaValTrpGlyAsnValSerLeuLys 77
OY 76 TGC-----CAAGTCATAAGAGTGAAGTGAAGTCTGTGAT-----CAGCTACTGAATCCC 123
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 78 CysLeuIleGluValAsnGluThrIleThrGlnIleSerTrpGluLysIleHisGlyLys 97
OY 124 AACAGGAGACCAT-----TATTTCAGGACCTTCAGGCTTTGAAG 165
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 98 SerThrGlnThrValAlaValHisHisProGlnTrpGlyLysSerValGlnGlyAspTyr 117
OY 166 GACAGCAGTGTTCAGTGTGTAATTTTTCAGCAGTGAAGTCAAGATCATCATGACAAAC 225
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 118 GlnGlyArgValLeuPheLysAsnTyrSerLeuAsnAspAlaThrIleThrLeuHisAsn 137
OY 226 GTCTCAATTTCTGATGAAGAGATACCTTTTGCACGCTCTATACCGATCCC-----CCA 279
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 138 IleGlyPheSerAspSerGlyLysTyrIleCysLysAlaValThrPheProLeuGlyAsn 157
OY 280 CAGGAAAGTTACACCCACATCATCTGCTGCTCCACACAGTAACTCATGATCGATATC 339
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 158 AlaGlnSerSerThrThrValThrValLeuValGluProThrValSerLeuIleLys-- 176
OY 340 CAGAAAGACACTGCGGTGAAGT-----GAGGAGATTGAAGTCAACTGCACCTGATG 393
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 177 GlyProAspSerSerIleAspGlyGlyAsnGlnThrValAlaValCysValSerSer 196
OY 394 GCCAGCAAGCCACGACGACTATCAGGTGTTCAAAAGCAACAGAGCTAAAGGCCAA 453
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 197 ThrGlyLysProValAlaGlnIleAspTrp--GluGlyAspLeuGlyGluArgGluPhe 215
OY 454 TCGAGAGTGAAGAGTGTGACATGTACACTGTGACACGTCAGCTGATGCTGAAGTG 513
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 216 SerThrIleSerPheLeuAsnGluThrAlaThrIleValSerGlnTyrGluLeuPhePro 235
OY 514 CACAAGAGAGCAGTGGGTCCAGTGTATCCAGTGTGAGAGACCTGCGGTCACTGGA 573
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 236 ThrArgPheAlaArgGlyArgGlyIleThrCysValValLysHisProAlaLeuGluLys 255
OY 574 AACCTGCAGACCCAGCGGTATCTGAAGTACATATAGCTCAAGCTCAAGTTCAGATG 633
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 256 AspIleArgTyrSerPheIleLeuAspIleGlnTyrAlaProGluValSerValThrGly 275
OY 634 ACTTATCTCTACAAGCTTAACCCGGGAGGAGGAGCGCTGAGTTAATATGTGAAGCC 693
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 276 TyrAspGlyAsnTrpPheValGlyArgLysGly-----ValAsnLeuLysCysAsnAla 293
OY 694 ATCGGGAAGCCCGACCTGTGATGTAACCTTGGGTGAGAGTGAATGAATGCCCA 753
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 294 AspAlaAsnProProPheLysSerValTrpSerArgLeuAspGlyGlnTrpProAsp 313

```

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OY 754 CAGCCSCTACTGCTGGGCCCCAACSTG--TTCATCATTAACCTAAACAAGATTAAT 810
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 314 GlyLeuLeuAlaSerAsnThrLeuHisPheValHisProLeuThrValAsnTyrSer 333
OY 811 GGTATATACCGGCTGTGAAGCTTCAACATAGTGGGGAAGCTACATGGGATTAATGCTG 870
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 334 GlyValTyrValCysLysValSerAsnSerLeuGlyGlnArgSerAspGlnLysValIle 353
OY 871 TATGATATACGATCCCC-----ACAATATGCTGCT----- 903
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 354 TyrIleSerAspProProThrThrThrThrLeuGlnProThrValGlnTrpHisSerSer 373
OY 904 -----CCACACACACCCACC 921
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 374 ProAlaAspValGlnAspIleAlaThrGlnHisLysLysLeuProPheProLeuSerThr 393
OY 922 ACCACACACACACACACACACCATTCATCATCATCATCATCATCATCATCATCATCAT 978
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 394 LeuAlaThrLeuLysAspAspThrIleGlyThrIleIleAlaSerValValGlyGly 412

```

Search completed: November 20, 2002, 07:55:59
 Job time : 76.25 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleole - protein search, using frame_plus_n2p model

Run on: November 20, 2002, 07:39:05 : Search time 48.25 seconds
(without alignments)
5567.528 Million cell updates/sec

Title: US-09-778-187b-1_COPY_130_1137

Perfect score: 1801

Sequence: 1 atccccacagtgatcgggca.....cgatcagggcagtgatcatc 1008

Scoring table: BLOSUM62
Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 1816940

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-O/cgcn2_1/USPRO.spool/US09778187/runat.20112002_073629_26303/app_query.fasta_1.2318
-DB=A.Geneseq.101002 -OPW=fastan -SUFFIX=tag -MINMATCH=0.1 -LOOPCTL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blomsu62 -TRANS=human40.cdi
-LIST=45 -DOCALLIGN=200 -THR_SCORE=ptc -THR_MAX=100 -THR_MIN=0 -ALIGN=15
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-USER=US09778187.ecgn1.1.71.runat.20112002_073629_26303 -NCPU=6 -ICPU=3
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23: /SIDS2/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1761	97.8	402	22	AA123691	Human EST encoded
2	1761	97.8	440	20	AA17830	Human PRO355 prote
3	1761	97.8	440	21	AA101321	Human PRO355 polyp
4	1761	97.8	440	22	AA129040	Human PRO polypept
5	1761	97.8	442	21	AA125619	Protein encoded by
6	1761	97.8	442	21	AA194341	Human cell surface
7	1761	97.8	442	21	AA145092	Human lymphoid der
8	1761	97.8	442	23	AA119887	Human tumor supp
9	1741	96.7	423	21	AA145093	Mouse lymphoid der
10	1704	94.6	344	21	AA125586	Protein encoded by
11	1612.5	89.5	443	22	AA188427	Human membrane or
12	1591	88.3	414	21	AA153028	Human secreted pro
13	1167.5	64.8	229	21	AA125593	Protein encoded by
14	629	34.9	387	22	AA178418	Human protein seq
15	623.5	34.6	444	20	AA13741	Beta-secretase, H
16	623.5	34.6	444	22	AA147251	Beta-secretase, H
17	604	33.5	388	22	AA111897	Human P22162.1 hom
18	597	33.1	388	22	AA179402	Human protein seq
19	578.5	32.1	404	23	AA166677	Human novel polype
20	576.5	32.0	404	22	AA161142	Human NOV12 protei
21	482.5	26.8	398	21	AA169287	Mouse brain immuno
22	482.5	26.8	404	22	AA169287	Mouse brain immuno
23	475.5	26.4	564	21	AA194405	Human ACAM4/19G4-F
24	473.5	26.3	598	21	AA194404	Human ACAM4/19G4-F
25	471.5	26.2	368	21	AA194405	Human ACAM4/19G1-F
26	471.5	26.2	398	19	AA180405	A secreted protein
27	471.5	26.2	398	20	AA129592	Human MBGP1 protei
28	471.5	26.2	398	20	AA113358	Amino acid sequenc
29	471.5	26.2	398	21	AA194403	Human ACAM cellula
30	471.5	26.2	398	21	AA169288	Amino acid sequenc
31	471.5	26.2	398	21	AA145095	Human LDCA4 bindin
32	471.5	26.2	398	22	AA101245	Human PRO358 polyp
33	471.5	26.2	398	22	AA180226	Human PRO358 prote
34	471.5	26.2	398	22	AA153083	Human angiolesten
35	471.5	26.2	398	23	AA161823	Human polypeptide
36	471.5	26.2	398	23	AA195444	Human angiolesten
37	471.5	26.2	398	23	AA184838	Human PRO358 prote
38	471.5	26.2	413	22	AA100867	Human brain immuno
39	469.5	26.1	344	22	AA151281	Human secreted pro
40	469.5	26.1	367	22	AA151280	Human secreted pro
41	469.5	26.1	432	21	AA194402	Human ACAM cellula
42	469.5	26.1	432	21	AA169286	Amino acid sequenc
43	469.5	26.1	432	21	AA145094	Human LDCA4 bindin
44	469.5	26.1	432	22	AA150413	Human secreted pro
45	459	25.5	433	21	AA153272	Human Beat-1-like 1

ALIGNMENTS

RESULT 1
ID AA123691 standard; Protein; 402 AA.

AC AA123691:

DT 12-OCT-2001 (first entry)

DE Human EST encoded protein seq ID NO: 1216.

KW Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;

KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;

KW diagnostics; forensic test; gene mapping; genetic disorder;

OS Homo sapiens.

PN WO200154477-A2.

PD 02-AUG-2001.
XX
XX 25-JAN-2001; 2001MO-US02687.
XX
XX 25-JAN-2000; 2000US-0491404.
PR 17-JUL-2000; 2000US-0617746.
PR 03-AUG-2000; 2000US-0631451.
PR 15-SEP-2000; 2000US-0663870.
XX
XX (HYSE-) HYSEQ INC.
PI Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;
PI Cao Y, Drmanac RA, Zhang J, Werhman T;
XX
XX WPI; 2001-476164/51.
DR N-PSDB; AAH98350.
XX
XX
PT Isolated polypeptide for treatment of diseases, diagnostics, raising
PT antibodies and research use -
XX
XX
PS Claim 20; Page 877-878; 1275pp; English.
XX
CC The present invention provides the protein and coding sequences of novel
CC proteins from a variety of organisms, including human, dog, cat, horse,
CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
CC urchin and tomato. These were derived from expressed sequence tags (ESTs)
CC from the organism of interest. They can be used in diagnostics,
CC forensics, gene mapping, identification of mutations, to assess
CC biodiversity and for nutritional purposes. The present sequence is a
CC protein of the invention.
XX
XX
SQ Sequence 402 AA;

Alignment Scores:
Pred. No.: 7,61e-151 Length: 402
Score: 1761.00 Matches: 336
Percent Similarity: 100.008 Conservative: 0
Best Local Similarity: 100.008 Mismatches: 0
Query Match: 97.78% Indels: 0
DB: 22 Gaps: 0

US-09-778-187b-1_COPY_130_1137 (1-1008) x AAM23691 (1-402)
QY 1 ATCCCCACAGGTGATGGGAGATCTGTTTACGAAGAAGCATGATCGAGGAGAG 60
DB 39 11leerthrhlgsplgylinasnleupheThrlysaspValThrVal11leGl1Glu 58
QY 61 GTTGGCCATTCAGTTCAGCAAGTCATTAAGAGTACACACTCTGTGATTCTACTGAT 120
DB 59 ValAlaThr11leSerCysGlnValAsnLysSerAspSerVal11leGlnLeuAsn 78
QY 121 CCCAAGCAGCAGACATTTATTTTCAGGAGCTTCAGGCTTGAAGGACAGAGTTTCAG 180
DB 79 ProAsnArgGlnThr11leTyrPheArgAspPheArgProLeuLysAspSerArgPheGln 98
QY 181 TTGCTGAATTTTCTACAGTGAATCAAGTATCATTTGACAAAGCTCTCAATTTCTGAT 240
DB 99 LeuLeuAsnPheserSerSerSerGluLeuLysValSerLeuThrAsnValSer11leSerAsp 118
QY 241 GAAGGAAGATACTTTTCCAGCTCTATACCGATCCCCACAGAGAAAGTTACACCACATC 300
DB 119 GluGlyArgTyrPheCysGlnLeuTyrThrAspProGlnGlnSerTyrThrThr11le 138
QY 301 ACAGTCTGTGTCACACAGTAAATCTGATGATTCAGAAAGACACATCGCGGTGAA 360
DB 139 ThrValLeuValProProAlaGlnLeuMet11leAsp11leGlnLysAspThrAlaValGlu 158
QY 361 GGTGAGAGATTGAAGTCAACTGCATCTATGAGCCAGCAAGCCAGCCAGCATATCAGG 420
DB 159 GlyGluGln11leGluValAsnCysThrAlaMetAlaSerLysProAlaThrThr11leArg 178
QY 421 TGSTTCAAAGGGAACAGAGCTAAAGGCAATCGAGGTGGAAGAGTGTCAGACATG 480
DB 421 TGSTTCAAAGGGAACAGAGCTAAAGGCAATCGAGGTGGAAGAGTGTCAGACATG 480

DB 179 TrpPheLysGlyAsnThrGluLeuLysGlyLysSerGluVal11Glu11TrpSerAspMet 198
QY 481 TACACTGTGACACAGTCAAGTGTGATGCTGAGTGCACAAAGAGAGATGGGGTCCAGTG 540
DB 199 TyrThrVal11ThrSerGlnLeuMetLeuLysVal11LysGlnAspArgValProVal 218
QY 541 ATCTGCCAGGTGAGACACCTCGGTCACAGTGAAGACCTGCAGACCCAGCGGTATCTGAA 600
DB 219 11leCysGlnVal11Gln11SerProAlaVal11ThrGlyAsnLeuGlnThrArgTyrLeuGlu 238
QY 601 GTACAGTAAAGCTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 660
DB 239 Val11ThrLysProGlnVal11His11leGlnMetThrTyrProLeuGlnGlyLeuThrArg 258
QY 661 GAAGGAGACGGCTTGAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 720
DB 259 Glu11LysAspAlaLeuGluLeuThrCysGluAla11leGlyLysProGlnProValMetVal 278
QY 721 ACTTGGGTGAGATGATGATGAATGCGTCAACAGCGCGTACTGTCTGGGCCAACCTG 780
DB 279 ThrThrValArgValAspAspGluMetProGlnHisAlaValLeuSerGlyProAsnLeu 298
QY 781 TTCTATCATTAACCTTAACAAACAGATATATGTCATACCGCTGTGAAGCTTCAACATA 840
DB 299 Phe11leAsnAsnLeuAsnLysThrAspAsnGlyThrTyrArgCysGluAlaSerAsn11le 318
QY 841 GTGGGAAAGCTCACTGAGTATATGCTGATATATGATATATATATATATATATATATAT 900
DB 319 ValGlyLysAlaHisSerAspTyrMetLeuTyrVal11LysAspProThrThr11lePro 338
QY 901 CTTCCACAAACATC 960
DB 339 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr11le 358
QY 961 ACAATTCGCGAGAGAGTGAAGAGCTCATGACGAGGACAGTCAAT 1008
DB 359 ThrAspSerArgAlaGlyGluGlySer11leArgAlaValAspHis 374

RESULT 2
AA17830
ID AA17830 standard; Protein; 440 AA.
XX
XX AA17830;
XX
XX 12-AUG-1999 (first entry)
XX
DE Human PRO355 protein sequence.
XX
XX Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
KW secreted protein; transmembrane protein; inflammation disorder.
XX
OS Homo sapiens.
XX
PN W09928462-A2.
PD 10-JUN-1999.
PE 01-DEC-1998; 98MO-US25108.
XX
XX 25-FEB-1998; 98US-0075945.
PR 03-DEC-1997; 97US-0067411.
PR 11-DEC-1997; 97US-0069278.
PR 11-DEC-1997; 97US-0069334.
PR 11-DEC-1997; 97US-0069335.
PR 12-DEC-1997; 97US-0069425.
PR 16-DEC-1997; 97US-0069494.
PR 16-DEC-1997; 97US-0069696.
PR 16-DEC-1997; 97US-0069702.
PR 17-DEC-1997; 97US-0069870.
PR 17-DEC-1997; 97US-0069873.
PR 18-DEC-1997; 97US-0068017.
PR 05-JAN-1998; 98US-0070440.
PR 09-FEB-1998; 98US-0074086.

PR 09-FEB-1998: 98US-0074092.
 XX (GETH) GENENTECH INC.
 XX Baker KP, Chen J, Goddard A, Gurney AL, Wood WT:
 PI Yuan J:
 XX MPI: 1999-371118/31.
 DR N-PSDB: AAX80055.
 XX
 PT Nucleic acids encoding PRO secreted and transmembrane proteins
 XX
 XX Claim 12: Fig 27: 123pp: English.
 CC The present invention describes nucleic acids encoding PRO secreted and
 CC transmembrane proteins used therapeutically. The PRO proteins have
 CC cytoskeletal, anti-inflammatory, anti-proliferative and immunosuppressive
 CC activity. The proteins and polynucleotides can be used in therapy,
 CC identification of homologues, raising antibodies and design of probes
 CC and primers. They can be used in a range of diseases related to proteins
 CC that they have homology with, e.g. a PRO protein having homology to
 CC complement proteins may be used in inflammatory responses.

SO Sequence 440 AA:

Alignment Scores:

Pred. No.: 7,81e-151 Length: 440
 Score: 1761.00 Matches: 336
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 97.78% Indels: 0
 DB: 20 Gaps: 0

US-09-778-187b-1_copy_130_1137 (1-1008) x AAY17830 (1-440)

QY 1 ATCCCAAGGATGAGGAGGAGATCTGTTTACGAAAGACGTGACAGTATCGAGGAGAG 60
 DB 37 ILEPOTHTGILYASPELYGLNAsnLeuPheThrLYSAspValThrValIleGluGlu 56
 QY 61 GTTGGACCATCATGTTGGCAAGTCATTAAGAGCAGCTGTGATTCAGCTACATGAA 120
 DB 57 VALAATHrIleSerCysGlnValAsnLYSAspAspSerValIleGlnLeuAsn 76
 QY 121 CCCAACAGCAGACCATTAATTATTCAGAGGACTTCAGSCCTTTCGAAAGACAGAGTTTCAG 180
 DB 77 PROAsnArgGlnThrIleTyrPheArgAspPheArgProLeuLYSAspSerArgPheGln 96
 QY 181 TTGCTGAATTTTCTAGCAGTGAAGTCAAGTATTCATTCAGAAAGCTTCATTTCTGAT 240
 DB 97 LeuLeuAsnPheSerSerSerGluLeuLYSValSerLeuThrAsnValSerIleSerAsp 116
 QY 241 GAGGAGAGATTAATTTGGCAGCTGTACCGATCCCGCCAGAGAAAGTAAACCCAGCATC 300
 DB 117 GUGUGAATGTyrPheCysGlnLeuTyrThrAspProProGlnGlnSerTyrThrThrIle 136
 QY 301 ACAGTCTGCTGCCACACAGCATATCGATGATTCAGAAAGACACTCGCGTGGAA 360
 DB 137 ThrValLeuValProProArgAsnLeuMetIleAspIleGlnLYSAspThrAlaValGlu 156
 QY 361 GGTGACGACATTTGAACTGACAGTGCATGCTATGCCAGCAAGCCACACGACTATCAGG 420
 DB 157 GILGILGluIleGluValAsnCysThrAlaMetAlaSerSerProAlaThrThrIleArg 176
 QY 421 TGGTTCAAGGAGACACACAGCTAAAGCAATCGAGAGTGGAAAGTGGTCAGACATG 480
 DB 177 TyrPheLYSGLYAsnThrIleLeuLYSGILYSGILYValGluIleIleTyrPheSerAspMet 196
 QY 481 TACACTGTACAGAGTGCATGATGCTGAAGTGACACAGAGAGACCATGGGCTCCAGTG 540
 DB 197 TyrThrValThrSerClnLeuMetLeuLYSValHisLYSGILAspAspGlyValProVal 216
 QY 541 ATCTGCCAGGTGAGACACCTTGGGCTCACTGGAACCTGCAGACCCAGCGGATTCAGAA 600
 |||||||

DB 217 ILeCysGlnValGluHisProAlaValThrGlyAsnLeuGlnThrGlnArgTyrLeuGlu 236
 QY 601 GPACACTATTAAGCCTCAAGTGCACATTCAGATGACTTATTCCTTACAAAGCCTTAACCCGG 660
 DB 237 ValGlnTyrLYSProGlnValHisIleGlnMetCThrTyrProLeuGlnGlyLeuThrArg 236
 QY 661 GAAGGGAGCCGCTTGAGTTAACATGTGAAGCCATCGGGAAGCCCGCAGCCTGTGATGTA 720
 DB 257 GILGILYAspAlaLeuGlnLeuThrCysGluAlaIleGlyLYSProGlnProValMetVal 276
 QY 721 ACTTGGGTGAGAGTGCATGATGAATGCCCTCAACACGCCGCTACTGTCTGGCCCAACTG 780
 DB 277 ThrTrpValArgValAspAspGlnMetProGlnHisAlaValLeuSerGlyProAsnLeu 296
 QY 781 TTCATCATTAACCTTAACAAACAGATTAATGGTACATACCGGCTGTAGAGCTTAAACATA 840
 DB 297 PheIleAsnAsnLeuAsnLYSThrAspAsnGlyThrTyrArgCysGluAlaSerAsnIle 316
 QY 841 GTGGGAAAGCTCACTGGATTAATGCTGTATGATAGATCCCGCCACAACTATCCCT 900
 DB 317 ValGlyLYSAlaHisSerAspTyrMetLeuTyrValTyrAspProProThrThrIlePro 336
 QY 901 CCTCCCAACAAACACACACACACACACACACACACACACACACACATCCTTACCATGATC 960
 DB 337 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIle 356
 QY 961 ACAGATTTCCGACAGCATGTAAGAGGCTCGATCAGGCGACATGATCAT 1008
 DB 357 ThrAspSerArgAlaGlyGluGlnGlySerIleArgAlaValAspHis 372
 RESULT 3
 AAB01321
 ID AAB01321 standard: Protein; 440 AA.
 XX
 AC AAB01321:
 XX
 DT 25-SEP-2000 (first entry)
 XX
 DE Human PRO355 polypeptide.
 XX
 KW PRO: membrane bound protein; secreted protein; PRO357; PRO327;
 KW PRO243; PRO715; PRO241; PRO323; PRO299; PRO333; PRO344; PRO347;
 KW PRO355; PRO353; PRO361; PRO365; transmembrane polypeptide;
 KW antibody; screening; detection; inhibition; probe; primer; human.
 XX
 OS Homo sapiens.
 XX
 FH Key
 FT Peptide
 FT
 FT Modified-site
 FT /note= "N-myristoylation site"
 FT /label= Signal peptide
 FT /label= 9..15
 FT Modified-site
 FT /note= "N-glycosylation site"
 FT /note= 65..69
 FT Modified-site
 FT /note= "N-glycosylation site"
 FT /note= 99..103
 FT Modified-site
 FT /note= "N-glycosylation site"
 FT /note= 111..115
 FT Modified-site
 FT /note= "N-glycosylation site"
 FT /note= 163..167
 FT Modified-site
 FT /note= "N-glycosylation site"
 FT /note= 227..233
 FT Modified-site
 FT /note= "N-myristoylation site"
 FT /note= 233..240
 FT Modified-site
 FT /note= "tyrosine kinase phosphorylation site"
 FT /note= 302..306
 FT Modified-site
 FT /note= "N-glycosylation site"
 FT /note= 306..310
 FT Modified-site
 FT /note= "N-glycosylation site"
 FT /note= 307..313
 FT Modified-site
 FT /note= "N-myristoylation site"
 FT /note= 319..328
 FT Modified-site
 FT /note= "tyrosine kinase phosphorylation site"
 FT /note= 365..371
 FT Modified-site

FT /note= "N-myristoylation site"
FT 372..393
FT /label= Transmembrane domain
FT Modified-site
FT 376..382
FT /note= "N-myristoylation site"
FT 402..408
FT Modified-site
FT 411..417
FT /note= "N-myristoylation site"
FT Modified-site
FT 427..433
FT /note= "N-myristoylation site"
FT Modified-site
FT 428..432
FT /note= "N-myristoylation site"
FT Modified-site
FT 430..434
FT /note= "N-glycosylation site"
FT
FT
PN WO200032776-A2.
XX
XX
PD 08-JUN-2000.
XX
XX
PE 01-DEC-1999; 99WO-US28301.
XX
PR 01-DEC-1998; 98WO-US25108.
PR 16-DEC-1998; 98US-0112850.
PR 22-DEC-1998; 98US-0113296.
XX
XX (GETH) GENENTECH INC.
XX
PI Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;
PI Hillan KJ, Kijavlin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX
DR MPI; 2000-412324/35.
DR N-PSDB: AAA49563.
XX
XX
PT New human nucleic acids encoding secreted and transmembrane
PT polypeptides, designated as PRO polypeptides, useful as pharmaceutical
PT and diagnostic agents
XX
XX
PS Claim 12; Fig 24; 187pp; English.
XX
XX
CC New human nucleic acids encoding secreted and transmembrane
CC polypeptides which are designated as PRO polypeptides are described
CC The membrane-bound proteins have various industrial applications,
CC including as pharmaceutical and diagnostic agents. The membrane-bound
CC proteins can also be employed for screening of potential peptide or
CC small molecule inhibitors of the relevant receptor/ligand interaction.
CC Anti-PRO antibodies are useful for the affinity purification of PRO
CC from recombinant cell culture or natural sources.
XX
XX
SQ Sequence 440 AA:

Alignment Scores:
Pred. No.: 7,81e-151 Length: 440
Score: 1761.00 Matches: 336
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 97.78% Indels: 0
DB: 21 Gaps: 0

US-09-778-187b-1_COPY_130_1137 (1-1008) x AAB01321 (1-440)

QY 181 TTGCTGAATTTTCTACAGTGAAGTCAAGTATCATTTGACAAGCGTCTCAATTTCTGAT 240
|||||
Db LeuLeuAsnPhSerSerSerSerGluLeuLysValSerLeuThrAsnValSerIleSerAsp 116
QY 241 GAAGGAAGATACCTTTGGCAGCTCTATACGATCCCGCAGGAAGATTACAGCAGCATC 300
|||||
Db GluGlyArgTyrPheCysGlnLeuTyrThrAspProGlnGlnSerTyrThrThrIle 136
QY 301 ACAGTCCGTGGCCACACAGTAATCTGATGTCATATCCAGAAAGACATCGCGTGGAA 360
|||||
Db ThrValLeuValProProAlaGlnLeuMetIleAspIleGlnLysAspThrAlaValGlu 156
QY 361 GGTGAGGAGATTGAAGTCAACCTGCATGCTATGGCCAGCAGCAGCCAGCAGCATATCAGG 420
|||||
Db GlyGluGluIleGluValAsnCysThrAlaMetAlaSerLysProAlaThrThrIleArg 176
QY 421 TGGTTCAAAGGGAACACAGACCTAAAGCAATCGAGGTGGAAGAGTGGTCAGACATG 480
|||||
Db TrpPheLysGlyAsnThrGlnLeuLysGlyLysSerGluValGlnGluTrpSerAspMet 196
QY 481 TACACTGTGACCACTGACCTGATGCTGATGAGTGCACAAAGAGAGCATGGGCTCCACGT 540
|||||
Db TyrThrValThrSerGlnLeuMetLeuLysValHisLysGlnAspAspGlyValProVal 216
QY 541 ATCTGCAGGTGAGAGACACCCCTGCGTCACTGGAACCTGCAGACCCAGCGGTATCTAGAA 600
|||||
Db IleCysGlnValGlnHisProAlaValAlaThrGlnLysLeuGlnThrGlnArgTyrLeuGlu 236
QY 601 GTACAGTATAGCCCTCAAGTGCACATTCAGATGACTATACCTTACAGAGCTTAACCCGG 660
|||||
Db ValGlnTyrLysProGlnValHisIleGlnMetThrTyrProLeuGlnGlyLeuThrArg 256
QY 661 GAAGGGAGCGCGCTTGAAGTATACATGTGGAAGCCATCGGGGAAGCCCGCTGTATGTA 720
|||||
Db GluGlnLysPalaLeuGluLeuThrCysGluAlaIleGlnLysProGlnProValMetVal 276
QY 721 ACTTGGGTGAGAGTCGATGATGAATGCCCTCAACACCCCGATGCTGGGCCCAACCTG 780
|||||
Db ThrTrpValArgValAspAspGluMetProGlnHisAlaValLeuSerGlyProAsnLeu 296
QY 781 TTCATCAATTAACCTTAACAAACAGATATGTCATACCGCTGTGAGCTTCAACATA 840
|||||
Db PheIleAsnHisLeuAsnLysThrAspAsnGlyThrTyrArgCysGluAlaSerAsnIle 316
QY 841 GTGGGGAAGCTCCCTCGGATTATATGCTGATATACATCCCGCCACAACTATCCCT 900
|||||
Db ValGlnLysAlaHisSerAspTyrMetLeuTyrValTyrAspProProThrThrIlePro 336
QY 901 CCTCCACAAACACACACACACACACACACACACACACACACACACATCTTACCATGATC 960
|||||
Db ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIleIle 356
QY 961 ACAGATTCCTCGAGCAGGTGAAGAGGCTCGATCAGTCAAGGCGACGTGATCAT 1008
|||||
Db ThrAspSerArgAlaGlyGlnGlySerIleArgAlaValAspHis 372
DB: 357
RESULT 4
AAU29040
ID AAU29040 standard; Protein: 440 AA.
XX
XX AAU29040:
AC
XX
DT 18-DEC-2001 (first entry)
XX
XX
DE Human PRO polypeptide sequence #17.
XX
XX PRO polypeptide: mammal; tumour; cancer; human; cattle; horse; sheep;
KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
XX
OS Homo sapiens.

XX WO200168848-A2.
PN
XX
PD 20-SEP-2001.
XX
PF 28-FEB-2001: 2001WO-US06520.
XX
XX 01-MAR-2000: 2000WO-US05601.
PR 02-MAR-2000: 2000WO-US05841.
PR 03-MAR-2000: 2000US-187202P.
PR 06-MAR-2000: 2000US-186968P.
PR 14-MAR-2000: 2000US-189320P.
PR 14-MAR-2000: 2000US-189328P.
PR 15-MAR-2000: 2000WO-US06884.
PR 21-MAR-2000: 2000US-190828P.
PR 21-MAR-2000: 2000US-191007P.
PR 21-MAR-2000: 2000US-191048P.
PR 21-MAR-2000: 2000US-191314P.
PR 28-MAR-2000: 2000US-192655P.
PR 29-MAR-2000: 2000US-193032P.
PR 29-MAR-2000: 2000US-193053P.
PR 30-MAR-2000: 2000WO-US08439.
PR 04-APR-2000: 2000US-194449P.
PR 04-APR-2000: 2000US-194647P.
PR 11-APR-2000: 2000US-195975P.
PR 11-APR-2000: 2000US-196000P.
PR 11-APR-2000: 2000US-196187P.
PR 11-APR-2000: 2000US-196690P.
PR 11-APR-2000: 2000US-196820P.
PR 18-APR-2000: 2000US-198121P.
PR 18-APR-2000: 2000US-198585P.
PR 25-APR-2000: 2000US-199397P.
PR 25-APR-2000: 2000US-199550P.
PR 25-APR-2000: 2000US-199654P.
PR 03-MAY-2000: 2000US-201516P.
PR 17-MAY-2000: 2000WO-US13705.
PR 22-MAY-2000: 2000WO-US14042.
PR 30-MAY-2000: 2000WO-US14941.
PR 02-JUN-2000: 2000WO-US15264.
PR 05-JUN-2000: 2000US-209832P.
PR 28-JUL-2000: 2000WO-US20710.
PR 22-AUG-2000: 2000US-0644848.
PR 24-AUG-2000: 2000WO-US23328.
PR 08-NOV-2000: 2000WO-US30952.
PR 01-DEC-2000: 2000WO-US32678.
PR 20-DEC-2000: 2000WO-US34956.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
DR MPI: 2001-602746/68.
DR N-PSDB: AAS45941.
XX
XX Novel nucleic acids encoding PRO polypeptides, used to diagnose the
PT presence of tumours, such as prostate and breast tumours, in mammals and
PT to screen for modulators of the compounds -
XX
XX Claim 11: Fig 34: 774pp; English.
XX
XX Sequences AAU29024-AAU29128 represent PRO polypeptides of the invention.
CC The PRO polypeptides and their associated nucleic acids can be used to
CC detect the presence of a tumour in a mammal by comparing the level of
CC expression of a PRO polypeptide in a test sample of cells from the animal
CC and a control sample of normal cells, whereby a higher level of
CC expression in the test sample indicates the presence of a tumour in the
CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
CC and rabbits but are preferably human. The polypeptides can be used to
CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
CC when contacted with it. A specific polypeptide can be used to stimulate
CC the proliferation or differentiation of chondrocyte cells. The PRO
CC proteins can be used to determine the presence of tumours and also

CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders.
XX
XX SQ Sequence 440 AA:
SQ
Alignment Scores:
Pred. No.: 7, 81e-151 Length: 440
Score: 1761.00 Matches: 336
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 97.78% Indels: 0
DB: 22 Gaps: 0
US-09-778-187B-1_COPY_130_1137 (1-1008) x AAU29040 (1-440)
QY 1 ATCCCCACAGCTGATGGCGAATCTGTTACGAAGACGTGACAGTGCAGGAGAG 60
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 37 ILeProthrgIlyspglYlnAsnLeuPheThrIyAspValIThrValIIeGlugIyGlu 56
QY 61 GTTGGCAGCATCGATTGCCAAGTCAATAGAGTGCAGCCTGTGATTCAGTCAAT 120
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 57 ValAlaThrIIeSerCySgInValAsnIySerAspAspSerValIIeGlInLeuAsn 76
QY 121 CCCACAGCAGACATTTATTTTCAGGACTTCAGCCCTTTGAAGACACAGGTTTCAG 180
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 77 ProAsnArgIlnhrIleIyrrPheArgAspPheArgProIeuIyAspSerArgPheGln 96
QY 181 TTGCTGAATTTTCTTACAGCTGAACCTCAANGATTCATTGACAAAGCTTCATTTCTGAT 240
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 97 LeuIeuAsnPheserSerSerSerGluLeuIyValSerIeuThrIyAsnValSerIIeSerAsp 116
QY 241 GAAGGAAGATACATTTCGCCAGCTATACCGATCCCGACAGGAAGTTACACGATC 300
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 117 GlugIyArgIyrrPheCySgInLeuIyrrThrasProGInGInuSerIyrrThrIle 136
QY 301 ACAGTCCGTGTCACACACACGCTAATCTGATGATGCATTCAGAAAGACACTGGCGTGA 360
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 137 ThrValIeuValProProArgAsnIeuMetIIeAspIIeGInIyAspThrIAlaValGlu 156
QY 361 GGTGAGAGAGATTGAAGTCAACTGACACTGCTATGCGCCAGCAAGCAGCAGCATATCAGG 420
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 157 GlyGInGInIleGInuValIancysThrAlaMetIaSerIySproAlaThrIrrThIleArg 176
QY 421 TGGTCAAGGAGAAACACAGAGCTAAAGGCAAAATCGAGGCGAAGAGTGTGCAGACATG 480
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 177 TrpPheIySgIyAsnThrGInuLeuIySgIyIySerGluValGInuIrrPSetAspMet 196
QY 481 TACACTGTGACAGTCAAGTCAATGCTGAAGTGCACAAAGAGAGAGCATGGTCCAGTG 540
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 197 TyrThrValIhrSerGInIeuMetIeuIyValIhIySgIuAspAspGlyValProVal 216
QY 541 ATCTCCAGGTGACAGCACCCCTGGCGTCACTGGAACCTGCAGACCCAGCGTATCTGA 600
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 217 IIeCySgInValIInuIhIySproAlaValIThrGlyAsnIeuIlnhrGInuIyrrIleuGlu 236
QY 601 GTACAGTATTAAGCTCAAGTGCACATTCAGATGACTTATCTGTACAAAGCGTTAAACCGG 660
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 237 ValGInIyrrIySproGInuValIhIyIleGInMetThrIyrrProIeuGInGlyIleThrArg 256
QY 661 GAAGGGAGCCGCTTGATTAACATGTGAAGCCATTCGGAAGCCCGCCGCTGTGATGTA 720
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 257 GlugIyAspIAlaIeuGInuLeuIrrCySgIuAlaIleIleIySproGInProValMeVal 276
QY 721 ACTTGGGTGAGATCGATGTGAATGCCCTCAACAGCCGCTACTGTGTGGGCCCAACCTG 780
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 277 ThrTrpValArValIAspAspGInuMetProGInhIhIaValIleuSerGlyProAsnLeu 296
QY 781 TTTCATCATTAACCTAAACAAACAGATATGTATACATACCGCTGTGAAGCTTCAACATA 840
DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
DB 297 PheIIeAsnAsnIeuAsnIySthrAspAsnGlyThrIyrrArgCySgIuAlaIleSerAsnIle 316

Oy		841 GTGGGGAAGGCATCTCGGATTATATGTGTATCATGCCCCCAACATACTCCT	900
Dd		317 VAlGIyVsAIAInSISSeASrpyIMetLeuyrValTyrAsPrProThrThrIlePrc	336
Oy		901 COTCCACAACACCASCACSCACSCAACACACACACACACACACACTTCATCATC	960
Dd		337 PrOpOrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIle	356
Oy		961 ACAGATTCCCAGCACGTGAAGAAGGCTGCATCAAGGCGCATGTGCAT	1008
Dd		357 ThrAsPeSrArGrAlagLIgLUglucLuclYserILeArGalVaLaSPHIs	372
RESULT 5 AAB25619			
ID	AAB25619	standard; Protein: 442 AA.	
XX			
AC	AAB25619;		
XX			
Dt	21-NOV-2000	(first entry)	
XX			
DE		Protein encoded by human secreted protein gene #11.	
KW		Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic; antiatherogenic; dermatologic; antiproliferative; antiatherosclerotic; anticancer; vulnerrary; antiviral; antibacterial; antifungal; immune disorder; Addison's disease; rheumatoid arthritis; dermatitis; multiple sclerosis; inflammatory disorder; inflammatory bowel disease; Crohn's disease; nephritis; hyperproliferative disorder; cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer melanoma; lymphoma; wound healing; human. KX XX OS Homo sapiens. PN PN WO200029435-A1. XX XX 25-MAY-2000. PD PD 27-OCT-1999; 99WO-US25031. PE PE 28-OCT-1998; 98US-0105971. PR PR (HUMA-) HUMAN GENOME SCI INC. PA PA (Ni J., Ruben SM, Olsen HS, Young PE, Kenny JT, Moore PA, Wei Y; PI Greene JM; PT WPI: 2000-387742/33. DR DR Isolated nucleic acid molecules encoding human secreted proteins are PT used for the prevention, amelioration and treatment of autoimmune, PT inflammatory, hyperproliferative and cardiovascular disorders, cancer, PT wounds, and infectious diseases - PS Disclosure: Page 182-183; 803pp; English. XX XX The present invention relates to 12 secreted human proteins and the CC nucleotide sequences encoding them. The polynucleotide sequences given CC in AAB80606-480623 encode the 12 secreted protein sequences given in CC AAB25516-B25593. The human secreted proteins have various activities CC dependent on the tissues in which they are expressed. Examples of the CC activities of the proteins include: Immunosuppressant; CC anti-inflammatoory; antiarthritic; antirheumatic; dermatological; CC antiproliferative; antiatherosclerotic; anticancer; vulnerary; CC antiviral; antibacterial; and antifungal activity. The proteins, CC polyptides, agonists and antagonists may be used to treat prevent CC and/or diagnose various disease, disorders and conditions examples of CC which include: immune disorders e.g. Addison's disease, rheumatoid CC arthritis, dermatitis, and multiple sclerosis; inflammatory disorders CC e.g. inflammatory bowel disease, Crohn's disease and nephritis; CC hyperproliferative disorders such as paraproteinemias and purpura; CC cardiovascular disorders e.g. coronary arteriosclerosis and myocarditis; CC cancer e.g. melanoma and lymphoma. The proteins and polynucleotide CC sequences may also be used in wound healing and the treatment of	

[illegible]

Dd		ValGlyLysAlaHisSerAspTyrMetLeuTrpValTyraProThrThrIlePro	338
Oy	901	CCTCCCAACAACACCAGCACCGAACGCCAGCAGCATTCCTTACATCATC ProProrThrHrrThrrHrrThrrHrrThrrThrrThrrThrlLeuthrrlleile	960 358
Oy	961	ACAGATTCCCAGCAGGTGAAGAAGGGCTGCATCAGGCGAAGTGATCAT ThrspserArGalacIGluGIUGlUglSerIlleaRgalavalasphtls	1008 374
RESULT_6			
ID	AAY94341	standard; Protein: 442 AA.	
XX	AAY94341;		
xx	22-AUG-2000	(first entry)	
De		Human cell surface receptor protein #8.	
Kw		Human: HCSRp; cytosolic; antiarthritic; antirheumatic; antislathmatic; Kw immunosuppressive; antiarteriosclerotic; antibacterial; antiparasitic; Km neuroprotective; mototropic; anticomulsant; cancer leukemia; KW melanoma; rheumatoid arthritis; asthma; atherosclerosis; akathesia; Xx Alzheimer's diseases; multiple sclerosis; epilepsy. OS Homo sapiens.	
Ft	Key	Location/Qualifiers	
Ft	Peptide	/label= Signal_peptide 1..44	
Ft	Protein	/label= HCSRp-8 45..442	
Ft	Domain	/label= 57..126	
Ft	Domain	/label= Immunoglobulin_domain 159..222	
Ft	Domain	/label= Immunoglobulin_domain 260..315	
Ft	Domain	/label= Transmembrane_domain 375..394	
Ft	Region	/note= "potential phosphorylation site" 53	
Ft	Region	/note= "potential glycosylation site" 67	
Ft	Region	/note= "potential glycosylation site" 101	
Ft	Region	/note= "potential glycosylation site" 103	
Ft	Region	/note= "potential glycosylation site" 113	
Ft	Region	/note= "potential glycosylation site" 115	
Ft	Region	/note= "potential phosphorylation site" 155	
Ft	Region	/note= "potential phosphorylation site" 165	
Ft	Region	/note= "potential glycosylation site" 176	
Ft	Region	/note= "potential phosphorylation site" 190	
Ft	Region	/note= "potential phosphorylation site" 233	
Ft	Region	/note= "potential phosphorylation site" 241	
Ft	Region	/note= "potential phosphorylation site" 304	
Ft	Region	/note= "potential glycosylation site" 308	
Ft	Region	/note= "potential glycosylation site" 310	
Ft	Region	/note= "potential phosphorylation site" 329	

FT	/note= "potential phosphorylation site"
ET	368 /note= "potential phosphorylation site"
FT	Region
FT	432
FT	Region
XX	/note= "potential glycosylation site"
PX	WO200028032-A2.
XX	
XX	18-MAY-2000.
PD	
PE	12-NOV-1999; 99WO-US26742.
PR	12-NOV-1998; 98US-0191280.
PR	07-DEC-1998; 98US-0206647.
PR	08-MAR-1999; 99US-0123404.
XX	
PA	(INCYTE) INCYTE PHARM INC.
PI	Tang YT, Corley MC, Guegler KU, Yue H, Baughn MR, Lal P;
PI	Hillman JL, Bandman O, Azimzai Y, Au-Young J;
XX	
DR	WPI: 2000-376546/32.
DR	N-PSTDB: AAA27051.
PT	New human cell surface receptor protein and polynucleotide useful for
PT	diagnosis, prevention and treatment of cancer, immune disorders,
PT	infection and neuronal disorders -
XX	
PS	Claim 1; Page 81-82; 97pp; English.
XX	
CC	The present sequence is a novel human cell surface receptor protein
CC	(HCSRPr) designated HCSRPr-8. The nucleotide sequence was identified in
CC	Incyte Clone 312256 from the cDNA library LUNCNOR02, which was made from
CC	RNA isolated from lung tissue. A number of Incyte clones were used to
CC	assemble the consensus sequence. BLAST analysis showed that the sequence
CC	is homologous to Immuno-superfamily protein B12 g3779242. HCSRPr and its
CC	antagonist are useful for preventing or treating disorders associated
CC	with decreased or increased expression or activity of HCSRPr. Such
CC	disorders include cancers such as leukemia and melanoma, immune
CC	bacterial and parasitic infections and neuronal disorders such as
CC	akathisia, Alzheimer's disease, multiple sclerosis and epilepsy.
CC	Polynucleotides encoding HCSRPs may be used as hybridisation probes to
CC	diagnose these conditions. Anti-HCSRPr antibodies may be used as
CC	pharmacologists, as a targeting or delivery mechanism for bringing
CC	pharmaceutical agents into contact with cells or tissues expressing
CC	HCSRPr and for diagnosis of HCSRPr-related disorders. HCSRPr and its
CC	catalytic or immunogenic fragments are useful for drug screening using
CC	libraries of compounds.
XX	
SQ	Sequence 442 AA:
XX	
Alignment Scores:	
Pred. NO.:	7.82e-151 Length: 442
Score:	1761.00 Matches: 336
Percent Similarity:	100.00% Conservative: 0
Best Local Similarity:	100.00% Mismatches: 0
Query Match:	97.78% Indels: 0
DB:	21 Gaps: 0
US-09-778-187B-1_LCOPY_130_1137 (1-1008) x AAV94341 (1-442)	
OY	1 ATCCCCACAGGTCGATGGCAGCAATCTGTTTGCAGAAAGCGTGACAGTCAGCGAGGAG 60
Db	
39	lePOTrrrlyaspGlyGlnashLeuherThyrlyspalTrvalIIegLugLyGlu 58
OY	61 GTTGGACCATCAGTGGCCAGTCACAATTAAGAGTAGCAGCACTGTGATTGACTCTGAAT 120
Db	
59	VAlAthrIrlleserCySGclnValasnlshyserspsaspeervalIIegInleuleasn 78
OY	121 CCCAACAGGCAACCATTATTTCAGGAGCTTTCAGGCCCTTTGAAGCACAGCAGGTTTTAC 180
Db	
79	ProAsnArGglntlrllletyrfPhenArgspphenrqrfoleuluysapsserArqPheGln 98

QY	181	TTGCGAATTTTTCATAGAGTCAAGTCAAGATGATGACAAACGTCGCAATTTTCGAT	240
DB	99	LeuLeuAsnPhnSerSerSerGluLeuLeuValSerLeuThrAsnValSerGluSerAsp	118
QY	241	GAAGAGAATACCTTTTGGCAGCTATACCGATCCGCCACAGAAAGTTTACACGACATC	300
DB	119	GIUGIUAIGTGYRheCysGluLeuIleuTYThrAspProGlnGlnuSerTYThrIle	138
QY	301	ACAGGCTGGTGGTCCGACGACGATATGATGATGCATATCCAGAAAGACACTCGGGTGAA	360
DB	139	ThrValIleValaProProlArgAsnLeuMetIleAspIleGlnLysAspThrAlaValGlu	158
QY	361	GGTGAAGGATTTGAAGTCAACTGCACCTCTATGGCCAGACAGCCAGCCAGCATATCAG	420
DB	159	GIUGIUGIUIleGluValaAsnCyshThrAlaMetAlaSerLysProAlaThrThrIleArg	178
QY	421	TGGTTCAAAAGGACACACAGAGCTAAAGGCAAAATCGAGGTGAAGAGTGGTCAGACATG	480
DB	179	TrpPheLysGluAsnThrGluLeuLysGluLysSerGluValaGluGluTrpSerAspMet	198
QY	481	TACACTGTGACACAGCAGCTGATGCTGGAAGGGCCAGAGGAGAGCGATGGGGTCCGAGT	540
DB	199	TYTThrValaThrSerGluLeuMetLeuLysValaIlnLysLysGluAspSerGluValaProAla	218
QY	541	ATCTCCACAGGTGGACACACCTGGCGGTCACTGGAAACCTGCAGACCCAGCCGCTATATGAA	600
DB	219	IleCysGlnValaGlnIlnIleProValaValaThrGluAsnLeuGlnThrGlnArgTYLeuGlu	238
QY	601	GTACAGTAAAGCCCTCAAGTGCACATCTAGATGACTTATCTCTTCAAGGCTTTAACCCGG	660
DB	239	ValGlnTYLysProGlnValaIlnIlnIleMetThrTYProLeuGlnGlyLeuThrArg	258
QY	661	GAAGGGGACGCGCTGAGTTAAACATGTGAACCCATCGGAGGAGCCGACCCGTCGTAGTGA	720
DB	259	GluGluAspAlaLeuGluLeuThrCysGluAlaIleIleGlyLysProGlnProValaMetVal	278
QY	721	ACTGGGTGAGAGTGCATGATGAATAATGCTCTCAACAGCCGACTGTCTGGGCCAACCTG	780
DB	279	ThrTrpValaArgValaAspAspGluMetProGlnIlnIlnValaIleuSerGlyProAsnLeu	298
QY	781	TTTCATCATTAACCTTAACAAACAGATGAATAGTGCATCTCGCTGGAAAGCTTCAACATA	840
DB	299	PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrTYArgCysGluAlaSerAsnIle	318
QY	841	GTGGGGAAGCTCACTCGGATTAATGCTGTATGATATAGATCCGCCACAACTACTCCCT	900
DB	319	ValGlyLysAlaIlnIlnSerAspTYMetLeuTYValaTYAspProProlThrIlePro	338
QY	901	CTCTCCCAACAAACACACACACACACACACACACACACACACACATCTTACATATATC	960
DB	339	ProProlThrThrThrThrThrThrThrThrThrThrThrThrThrIleLeuThrIleIle	358
QY	961	ACAGATTCCTCCGAGCAGGTGAAGAAGGCTCGATCAAGGGCAGTGGATCAT	1008
DB	359	ThrAspSerArgAlaGlyGluGluGlySerIleArgAlaValaAspHis	374
RESULT 7			
AAAY45092			
ID	AAAY45092 standard; Protein; 442 AA.		
XX	AAAY45092;		
DT	31-MAY-2000 (first entry)		
DE	Human lymphoid derived dendritic cell adhesion molecule.		
XX			
KW	Lymphoid derived dendritic cell adhesion molecule; EDCAM; human; B7-1;		
KW	B7-1; T cell proliferation; natural killer cell; NK; tumor cell;		
KW	immune system activity; quality control reagent; treatment; inflammation;		
KW	immune system disorder; autoimmune; viral infection; infectious disease;		
KW	organ transplant rejection; bone marrow; modulator; immune response.		
XX			

OS	Homio sapiens.		
XX			
EH	Key	Location/Qualifiers	
FT	Domain	1..374	
FT		/label= Extracellular_domain	
FT	Peptide	1..38	
FT		/label= Leader_peptide	
FT	Protein	39..442	
FT		/label= Mature_human_LDCAM_polypeptide	
FT	Modified-site	67..69	
FT		/note= "N-Glycosylation site"	
FT	Modified-site	101..103	
FT		/note= "N-Glycosylation site"	
FT	Modified-site	113..115	
FT		/note= "N-Glycosylation site"	
FT	Modified-site	165..167	
FT		/note= "N-Glycosylation site"	
FT	Modified-site	304..306	
FT		/note= "N-Glycosylation site"	
FT	Modified-site	308..310	
FT		/note= "N-Glycosylation site"	
FT	Domain	375..395	
FT		/label= Transmembrane_domain	
FT	Domain	396..442	
XX		/label= Cytoplasmic_domain	
PN	MO200008158-A2.		
PD	17-FEB-2000.		
XX			
PE	05-AUG-1999;	99WO-USI7905.	
XX			
PR	07-AUG-1998;	98US-0095672.	
XX			
PA	(IMMV) IMMUNEX CORP.		
XX			
PL	Baum PR, Fanslow WC;		
XX			
DR	WPI; 2000-2055712/18.		
DR	N-PSDB; AA250882.		
PT	Novel molecules designated LDCAM are capable of altering or modulating T cell function		
XX			
PS	Claim 7; Page 42-43; 44pp; English.		
XX			
CC	The present amino acid sequence is the human lymphoid derived dendritic cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic cells and displays homology to adhesion molecules, B7-1 and cytoplasmic region of B7-L1. Human LDCAM is expressed in breast, retina, foetal liver, spleen and heart, lung, muscle, placenta, thyroid and lung carcinoma. LDCAM polypeptides interacts with T cell surface molecules to alter signalling and inhibits T cell proliferation, bind to themselves and B7L-1, an LDCAM binding protein and increases natural killer (NK) cell populations. It may be used to measure the biological activity and as quality control reagents of LDCAM binding proteins.		
CC	LDCAM may be used for treating disorders associated with malfunctioning of immune system, inflammation, autoimmune disorders, viral infected cells, infectious diseases and for killing tumour cells. They are also useful for prevention or reducing the effect of organ and bone marrow transplant rejection and for modulating T cell immune responses. LDCAM polypeptides may also be used as carriers for delivering agents attached to T cells or cells bearing B7L-1.		
XX			
SQ	Sequence	442 AA;	
Alignment Scores:			
Pred. No.:	7	82e-151	Length: 442
Scores:	1761.00	Matches:	336
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	97.78%	Indels:	0
DB:	21	Gaps:	0

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US-09-778-187b-1_COPY_130_1137 (1-1008) x AAY45092 (1-442)
OY 1 ATCCCAAGAGTGGAGATCTGTTACGAAGACGTGACAGTATCGAGGAG 60
DB 39 IIEPRTGCIYASPGIYGLNLSNLEUPHETHLYASPAVALHTRVAILIEGILGUGL 58
OY 61 GTTGCAGCATCATGTTCCAAATCAATAGAGTACAGTCTGTGATTGACTGTAAT 120
DB 59 VALAIAETHRIEISERCYSGLNVALASNLYSERSAPSPERVALIEGILNLEUASN 78
OY 121 CCCAAGAGCAGACCTTTATTTCAGGAGCTTACAGCCTTTTGAAGACAGCAGTTTAC 180
DB 79 PROASNAIARGILNTHRIETRYRHEAARGAPRHEARGPROLEUYSAPSERIAPRHEGLN 98
OY 181 TTTCGTAATTTTCTAGCAGTCAACTCAAAAGTATCATTTGCAAAAGCTTCATTTCTGAT 240
DB 99 LEULEASNPHESERISERSERISGLULEULYSVALSERLEUTHRASNVALSERILESERASP 118
OY 241 GAAGAAGATACCTTTTGGCAGCTCTATACCGATCCCCACAGGAAGATTACACACCATC 300
DB 119 GLUGIYARGTYRPHCYSGILNLEUTYTRHASPRTGROGLNLSERTYTRHTRHIE 138
OY 301 ACAGTCTGGTCCACAGCATATCTGATGATGATATCCAGAAAGACACTGGCGGTGAA 360
DB 139 THVALLEUVALPRROBPAARGASNLEUMETLEASPIIEGILNYSAPTRHVALVALGLU 158
OY 361 GGTGAGAGATTGAGTCAACTGCTGATGGCCAGCAAGGACAGCAGCATATCAGG 420
DB 159 GLUGIUGIUIEGILVALASNCTHTRHAIEMETALISERTYSPROALATHTRHIEARG 178
OY 421 TGGTTCAAGGGAACACAGAGCTAAAGGCAATCGAGAGTGGAGAGTGTGCAGCATG 480
DB 179 TRPHLYELGILYASNTHRGILNLEULYSGLIYLSERGLIUIALGILUTRPSERASPMT 198
OY 481 TACAGTGTACAGTGTGATGCTGAAGGTGCACAGAGAGACGATGGGCTCCAGTG 540
DB 199 TYTTHVALTHSERGINLEUMETLEULYSVALHISLYSGLNLSAPSPGLVALPROVAL 218
OY 541 ATCTGCCAGTGGAGACCTCGCGGTACATGGAACCTGAGACAGCAGCGGTATCAGAA 600
DB 219 IIECYGILNVALIUNHISPROALVALHTRCYLASNLEUGILNTHRGILNAGTYRLEGLN 238
OY 601 GTACAGTATAGCCTCAAGTCACTCAAGTCAATGACTTATCTCTACAGGCTTAACCCGG 660
DB 239 VALGILNLYSAPROGLNVALHISGLNMETLHTRYRPROLEUGILNGLYLEUTHRARG 258
OY 661 GAAGGAGAGCGGTGAGTGAATGATGAAAGCCATGGGAAGGCCAGCCTGTGATGTA 720
DB 259 GLUGIYASPAVALLEUULNLEUTHRCYSGIUIALIEGILYASPROGLNPROVALMETVAL 278
OY 721 ACTTGGGTGAGATCGATGATGAATGCCTCAACAGCAGCGCTACTGTCTGGGCCAACCTG 780
DB 279 THTRTVVALIARGVALASPARSGILMETPROGLNHIALVALLEUBERGILYRPOALNLEU 298
OY 781 TTTCATCAATTAACCTAAACAAACAGATTAATGTGATACCCGCTGTGAAGCTTAACATTA 840
DB 299 PHEIILASNASNLEUASNLYSTHASPASNGLYTHTRYARGYSGIUIALISERASNIE 318
OY 841 GTGGGGAAGCTCATCGGATTTATATGCTGTATAGATAGATCCGCCCAACTATACCTCT 900
DB 319 VALGILYVALHAIHISERSAPRYRMELEUTYVALITYASPROBPTHTRHTRHIEPRO 338
OY 901 CCTCCCAACAACAACACACACACACACACACACACACACACACACATCTTACATCATCATC 960
DB 339 PROPTGTHTRHTRHTRHTRHTRHTRHTRHTRHTRHTRHTRHTRHTRHTRHTRHTRHTRH 358
OY 961 ACAGATTCCCGACAGCATGGAAGAGCTGATCAGGAGCAGTGTGATCAT 1008
DB 359 THASPSPERVALIAGIYGLIUGIYLSERILEARGALVALASPAHS 374

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RESULT 8
AAE19887

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ID AAE19887 standard; Protein: 442 AA.
XX
AC AAE19887;
XX
DT 18-JUN-2002 (first entry)
XX
DE Human tumour suppressor lung cancer 1 (TSLC1) polypeptide.
XX
KW Human: hepatocellular carcinoma; tumour suppressor lung cancer 1; TSLC1;
KM liver; lung; pancreatic cancer; cell proliferative disorder; cytostatic;
KW gene therapy.
XX
OS Homo sapiens.
PN W0200214557-A1.
XX
PD 21-FEB-2002.
XX
PE 15-AUG-2001; 2001WO-US25690.
XX
PR 15-AUG-2000; 2000US-225264P.
XX
PA (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
PI Reeves RH, Yoshinori M;
XX
DR MPI; 2002-241913/29.
XX
PT Detecting cell proliferative disorder associated with tumor suppressor
PT lung cancer (TSLC) 1 in subject, comprises contacting proliferating
PT cell of subject with reagent detecting TSLC1 and detecting modification
PT in TSLC1 level
XX
PS Disclosure: Page 49-50; 59pp; English.
XX
CC The invention relates to a method for detecting cell proliferative
CC disorder associated with tumour suppressor lung cancer 1 (TSLC1) in a
CC subject. The method comprising contacting a cell component of a
CC proliferating cell with a reagent that detects level of the cell
CC component in the proliferating cell and determining modification in the
CC level of the cell component in proliferating cell as compared with a
CC healthy cell, where modification indicates disorder associated with a
CC TSLC1. The method is useful for detecting a cell proliferative disorder
CC (e.g. liver, lung or pancreatic cancer) associated with tumour suppressor
CC lung cancer 1 (TSLC1) in a subject. The invention is useful in gene
CC therapy and for treating a cell proliferative disorder such as lung
CC cancer (human non-small cell lung cancer), liver cancer (hepatocellular
CC carcinoma) or pancreatic cancer associated with modification of TSLC1
CC production, where a reagent which modulates (preferably, increases) TSLC1
CC level in the cells, is employed. The present sequence is human TSLC1.
XX
SQ Sequence 442 AA:
XX
Alignment Scores:
Pred. No.: 7,82e-151 Length: 442
Score: 1761.00 Matches: 336
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 97.78% Indels: 0
DB: 23 Gaps: 0
US-09-778-187b-1_COPY_130_1137 (1-1008) x AAE19887 (1-442)
OY 1 ATCCCAAGAGTGGAGATCTGTTACGAAGACGTGACAGTATCGAGGAG 60
DB 39 IIEPRTGCIYASPGIYGLNLSNLEUPHETHLYASPAVALHTRVAILIEGILGUGL 58
OY 61 GTTGCAGCATCATGTTCCAAATCAATAGAGTACAGTCTGTGATTGACTGTAAT 120
DB 59 VALAIAETHRIEISERCYSGLNVALASNLYSERSAPSPERVALIEGILNLEUASN 78
OY 121 CCCAAGAGCAGACCTTTATTTCAGGAGCTTACAGCCTTTTGAAGACAGCAGTTTAC 180

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Db 79 ProAsnArgGlnThrIleTyrPheArgAspPheArgProLeuLysAspSerArgPheGln 98
QY 181 TTGCTGAATTTTCTAGCAGTGAACCTAAATCATATTGACAAACGCTCATTTCTGAT 240
Db 99 LeuLeuAsnPheserSerSerGluLeuLysValSerLeuThrAsnValSerIleSerAsp 118
QY 241 GAAGGAAGATACCTTTGGCAGCTCTATACCGATCCGCCACAGAAAGTTACACCAATC 300
Db 119 GluGluArgTyrPheCysGlnLeuTyrThrAspProGlnGlnLysSerTyrThrThrIle 138
QY 301 ACAGTCCCGCTCCACCAACCTAAATCTGATGATCATATCCGAAAGACACTCCGCTGAA 360
Db 139 ThrValLeuValProProArgAsnLeuMetIleAspIleGlnLysAspThrAlaValGlu 158
QY 361 GGTGAGAGATTTGAAGTCAACTGCATGCTATGGCAGACCAAGCCAGCAGCATATCAGG 420
Db 159 GlyGluGluIleGluValAlaAsnCysThrAlaMetAlaSerLysProAlaThrThrIleTyr 178
QY 421 TGGTTCAAAGGGAACACAGAGACTAAAGCAATCGAGGTGGAAGAGTGGTCAAGATG 480
Db 179 TrpPheLysGluAsnThrGluLeuLysGlyLysSerGluValGluGluIleTrpSerAspMet 198
QY 481 TACACTGACACCACTCAAGCTGATGCTGAGGTGCACAAAGGAGACGATGGGGTCCAGTG 540
Db 199 TyrThrValThrSerGlnLeuMetLeuLysValHisLysGluAspAspGlyValProVal 218
QY 541 ATCTGCCAGGTGAGACACCCCTGCGTCACTGGAACCTGCAAGCCGACCGCTATCTGAA 600
Db 219 IleCysGlnValGluHisProAlaValThrGlyAsnLeuGlnThrGlnAlaGlyLeuGlu 238
QY 601 GTACAGTAAAGCTCAAGTGCACATTCAGATGACTATCTCTACAAGGCTTAACCCGG 660
Db 239 ValGlnTyrLysProGlnValHisIleGlnMetThrTyrProLeuGlnGlyLeuThrArg 258
QY 661 GAAGGGAGCGGGCTTGAGTTAAACATGTGAAGCCATCGGGAAGCCCGACCTGATGTA 720
Db 259 GluGluLysPalaLeuGluLeuThrCysGluAlaIleGlyLysProGlnProValMetVal 278
QY 721 ACTTGGTGAAGTGCATGATGAATGCTCAACACGCCGACTGTCGGGCCCAACCTG 780
Db 279 ThrThrValArgValAspAspGluMetProGlnHisAlaValLeuSerGlyProAsnLeu 298
QY 781 TTGATCAATAACCTAAACAAACAGATATGATACATACCGCTGTAAGCTTCAACATA 840
Db 299 PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrTyrArgCysGluAlaSerAsnIle 318
QY 841 GTGGGGAAGCTCAGCTGGGATTATATGCTGATGATATACATCCGCCACAACTATCCCT 900
Db 319 ValGluLysAlaHisSerAspTyrMetLeuTyrValTyrAspProProThrThrIlePro 338
QY 901 CTTCCCAACAACACCAACACCAACCAACCAACCAACCAACCAACCAACCAACCAATC 960
Db 339 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIleIle 358
QY 961 ACAGATTCGCCGAGCAGTGAAGAAGCTGCATCAGGCGACTGATCAT 1008
Db 359 ThrAspSerArgAlaGluGluGlySerIleArgAlaValAspHis 374

RESULT 9
AAV45093
ID AAV45093 standard; Protein; 423 AA.
XX
AC AAV45093;
XX
DT 31-MAY-2000 (first entry)
XX
DE Mouse lymphoid derived dendritic cell adhesion molecule.
XX
KW Lymphoid derived dendritic cell adhesion molecule; LDCAM; mouse; B7-1;
KW B7-1; T cell proliferation; natural killer cell; NK; tumour cell;
KW biological activity; quality control reagent; treatment; inflammation;
KW immune system disorder; autoimmune; viral infection; infectious disease;
KW organ transplant rejection; bone marrow; modulator; immune response.

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XX OS Mus sp.
XX FH key Location/Qualifiers
XX FT Domain 1..356
FT Modified-site /label= Extracellular_domain
FT Modified-site 49..51
FT Modified-site /note= "N-Glycosylation site"
FT Modified-site 83..85
FT Modified-site /note= "N-Glycosylation site"
FT Modified-site 95..97
FT Modified-site /note= "N-Glycosylation site"
FT Modified-site 147..149
FT Modified-site /note= "N-Glycosylation site"
FT Modified-site 286..288
FT Modified-site /note= "N-Glycosylation site"
FT Modified-site 290..292
FT Modified-site /note= "N-Glycosylation site"
FT Domain 357..377
FT Domain /label= Transmembrane_domain
FT Domain 378..423
FT Domain /label= Cytoplasmic_domain

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XX PN WO200008158-A2.
XX PD 17-FEB-2000.
XX PE 05-AUG-1999; 99WO-US17905.
XX PR 07-AUG-1998; 98US-0095672.
XX PA (IMMUNEX CORP.
XX PI Baum PR, Fanslow WC;
XX DR WPI; 2000-205712/18.
XX DR N-PSDB; AA250883.
XX PT Novel molecules designated LDCAM are capable of altering or modulating
XX PT T cell function
XX PS Claim 7; Page 46-47; 44pp; English.

```

The present amino acid sequence is the mouse lymphoid derived dendritic cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic cells and displays homology to adhesion molecules, B7-1 and cytoplasmic region of B7-1L. Mouse LDCAM is found on whole embryo, testes, triple negative cells murine splenic and lymph node CD4+, 549.1 and dendritic cells. LDCAM polypeptides interacts with T cell surface molecules to alter signalling and inhibits T cell proliferation, bind to themselves and B7L-1, an LDCAM binding protein and increases natural killer (NK) cell populations. It may be used to measure the biological activity and as quality control reagents of LDCAM binding proteins. LDCAM may be used for treating disorders associated with malfunctioning of immune system, inflammation, autoimmune disorders, viral infected cells, infectious diseases and for killing tumour cells. They are also useful for prevention or reducing the effect of organ and bone marrow transplant rejection and for modulating T cell immune responses. LDCAM polypeptides may also be used as carriers for delivering agents attached to T cells or cells bearing B7L-1.

Sequence 423 AA:

Alignment Scores:

Pred. No.:	Length:	423
Score:	1741.00	332
Percent Similarity:	99.11%	
Best Local Similarity:	98.81%	
Query Match:	96.67%	
DB:	21	0
	Gaps:	0

US-09-778-187B-1_COPY_130_1137 (1-1008) x AAV45093 (1-423)

```

OY 1 ATCCCCACAGCTGATGGCAGAACTGTTTACGAAAGCTGACGATTCAGGGAGAG 60
   |||
   |||
   |||
Db 21 ILEPOTHCGLYASPELGLNAsnLeuPheThrLysAspValThrValIleGluGlu 40
OY 61 GTTGGACACCATGTTGGCAAGCATTAAGAGTGCATCTGCTGATTGACGACTGAT 120
   |||
   |||
   |||
Db 41 VALAIAATHIILSerCysGlnValAsnLysSerAspAspSerValIleGlnLeuAsn 60
OY 121 CCCAACAGGCAGACCATTTATTTACAGGACTTCAGCCCTTTCAGAGCAGCAGTTTCA 180
   |||
   |||
   |||
Db 61 ProAsnArgGlnThrIleLysrPheArgAspPheArgProLeuLysAspSerArgPheGln 80
OY 181 TTGCTGAATTTTCTAGCAGTAACTCAAGATATCATTCATTCATTTCTGAT 240
   |||
   |||
   |||
Db 81 LeuLeuAsnPheserSerSerGluLeuLysValSerLeuThrAsnValSerIleSerAsp 100
OY 241 GAAGGAAGTACTTTTGGCAGCTTATACCGATCCCGCCAGAAAGTTAACCCACATC 300
   |||
   |||
   |||
Db 101 GluGlyArgTyrPheCysGlnLeuTyrThrAspProProGlnGlnSerTyrThrThrIle 120
OY 301 ACAGTCCCTGGTCCACACAGTAACTGATGATGATATTCAGAAAGACACTCGCGTGAA 360
   |||
   |||
   |||
Db 121 ThrValLeuValProProArgAsnLeuMetIleAspIleGlnLysAspThrAlaValGlu 140
OY 361 GGTGAGCAGATTGAAGTCACTGCTATGCGCCAGCAAGCCACGACTATCAGG 420
   |||
   |||
   |||
Db 141 GLYGLGILIEGLIuValAsnCysThrAlaMetAlaSerIleAspAlaThrThrIleArg 160
OY 421 TGGTTCAAGGGACACACAGCTAAAGGCAATCGGAGGTGGAAAGTGTTCAGCATG 480
   |||
   |||
   |||
Db 161 TTPPheLysGlyAsnLysIuLeuLysGlyLysSerGluValGluIuTPPserAspMet 180
OY 481 TACACTGTGACAGTGCAGTGTGATGCTGAAGGTGCACACAGAGCAGTGGGCTCCAGTG 540
   |||
   |||
   |||
Db 181 TyrThrValThrSerGlnLeuMetLysValHisLysGluAspArgValProVal 200
OY 541 ATCTGCCAGTGGAGCACCCTCGGCTCACTGGAACCTGCAGACCCGCGATATAGAA 600
   |||
   |||
   |||
Db 201 IIECysGlnValGluIuThrProAlaValIThrGlyAsnLeuGlnThrGlnArgTyrLeuGln 220
OY 601 GTACAGTATTAAGCTCAATGTCACATTCAGATGACTTATTCCTTACAAAGCTTAACCCG 660
   |||
   |||
   |||
Db 221 ValGlnTyrLysProGlnValHisIleGlnMetThrTyrProLeuGlnGlyLeuThrArg 240
OY 661 GAAGGGAGCGCCTTGAATTAACATGTGAAGCATGCGGAAAGCCCGCAGCTGATGATA 720
   |||
   |||
   |||
Db 241 GluGlyAspAlaPheGluLeuThrCysGluAlaIleGlyLysProGlnProValMetVal 260
OY 721 ACTTGGGTAGAGTGCATGATGAATGCTCAACAGCCGCTACTGTCTGGCCCAACCTG 780
   |||
   |||
   |||
Db 261 ThrTPValArgValAspArgGlnMetProGlnHisAlaValIleuSerGlyProAsnLeu 280
OY 781 TTCATCAATTAACCTAAACAACAGATATGTCATACCCGCTGAGCTTAAACATA 840
   |||
   |||
   |||
Db 281 PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrTyrArgGlySlnAlaSerAsnIle 300
OY 841 GTGGGGAAGCTCACTCGGATTTATGATGATATGATATGATATGATATGATATGATATG 900
   |||
   |||
   |||
Db 301 ValGlyLysAlaHisSerAspTyrMetLeuTyrValTyrAspProThrThrIlePro 320
OY 901 CCTCCCAACAACAACACACACACACACACACACACACACACATCTTACATCATC 960
   |||
   |||
   |||
Db 321 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr 340
OY 961 ACAGATTTCCGAGCAGAGTGAAGAAGCTCGATCAGGCGAGTGAATAT 1008
   |||
   |||
   |||
Db 341 ThrAspSerArgAlaGlyGluGlnGlyThrIleGlyAlaValAspHis 356

```

RESULT 10
 AAB25586
 ID AAB25586 standard: Protein: 364 AA.
 XX
 AC AAB25586:

XX 21-NOV-2000 (first entry)
 DT
 XX Protein encoded by human secreted protein gene #11.
 DE
 XX
 XX Secreted protein: immunosuppressant; anti-inflammatory; antiarthritic;
 KW antineumatic; dermatological; antiproliferative; antiarteriosclerotic;
 KW anticancer; valnerary; antiviral; antibacterial; antifungal;
 KW immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;
 KW multiple sclerosis; inflammatory disorder; inflammatory bowel disease;
 KW Crohn's disease; nephritis; hyperproliferative disorder;
 KW cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;
 KW melanoma; lymphoma; wound healing; human.
 KW
 XX Homo sapiens.
 XX
 OS
 PN MO200029435-A1.
 PD
 XX 25-MAY-2000.
 XX
 XX 27-OCT-1999: 99WO-US25031.
 PF
 XX 28-OCT-1998: 98US-0105971.
 PR
 XX (HUMA-) HUMAN GENOME SCT INC.
 PA
 XX NI J, Ruben SM, Olsen HS, Young PE, Kenny JT, Moore PA, Wei Y;
 PI Greene JM;
 XX
 XX WPI: 2000-387742/33.
 DR
 XX N-PSDB: AAA80616.
 XX
 PT Isolated nucleic acid molecules encoding human secreted proteins are
 PT used for the prevention, amelioration and treatment of autoimmune,
 PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,
 PT wounds, and infectious diseases -
 PT
 XX Claim 1: Figure 28A-B; 803bp: English.
 XX
 PS
 CC The present invention relates to 12 secreted human proteins and the
 CC nucleotide sequences encoding them. The polynucleotide sequences given
 CC in AAB80606-A80623 encode the 12 secreted protein sequences given in
 CC AAB35576-B25593. The human secreted proteins have various activities
 CC dependent on the tissues in which they are expressed. Examples of the
 CC activities of the proteins include: immunosuppressant;
 CC anti-inflammatory; antirheumatic; antineumatic; dermatological;
 CC antiproliferative; antiarteriosclerotic; anticancer; valnerary;
 CC antiviral; antibacterial; and antifungal activity. The proteins,
 CC polypeptides, agonists and antagonists may be used to treat prevent
 CC and/or diagnose various disease, disorders and conditions examples of
 CC which include: immune disorders e.g. Addison's disease, rheumatoid
 CC arthritis, dermatitis, and multiple sclerosis; inflammatory disorders
 CC e.g. inflammatory bowel disease, Crohn's disease and nephritis;
 CC hyperproliferative disorders such as paraproteinemia and purpura;
 CC cardiovascular disorders e.g. coronary arteriosclerosis and myocarditis;
 CC cancer e.g. melanoma and lymphoma. The proteins and polynucleotide
 CC sequences may also be used in wound healing and the treatment of
 CC infectious diseases. The human secreted protein gene #11 and protein
 CC sequences are represented in sequences AAB80616 and AAB25586. Sequences
 CC AAB80677-A80682 represent genes related to the secreted protein gene#11.
 CC
 XX
 SQ Sequence 364 AA:

Alignment Scores:
 Pred. No.: 1 07e-145 Length: 364
 Score: 1704.00 Matches: 325
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 94.61% Indels: 0
 DB: 21 Gaps: 0

US-09-778-187B-1_COPY_130_1137 (1-1008) x AAB25586 (1-364)

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QY      1 ATCCACAGGTGATGGGACAGAAATCTGTTTACGAAGAAGCTGACAGTATCAGGAGAG 60
Db      11leProthrglyaspGlylnasnleuPheThrlyaspValThrVal11leGlnGlylu 58
QY      61 GTTCGACCATCTTGGCAGATCAATTAAGATGACGACTGTGATTCCACTACTGAT 120
Db      59 ValAthrIleSerYsglnValasnlySeraspSerVal11leGlnleuasn 78
QY      121 CCCAACAGGACGACATTTATTTAGGACTTCAGGCTTGAAGGACAGAGGTTTCAG 180
Db      79 ProbsnarglnThrIleTyrPheArgaspPheargProleuYsaspSerArgPheGln 98
QY      181 TTGCTGAATTTTCTAGCAGTGAATCAAGTATCATTTGACAAACGTTCAATTTCTGAT 240
Db      99 LeuLeuasnPheSerSerSerGlnleuYsValserleuThrasnValSerIleSerasp 118
QY      241 GAAGGAGATCTTTTGGCAGCTCTATACGATCCCCACAGGAAAGTTACACCATC 300
Db      119 GlnGlyArgTyrPheYsglnleuTyrThrAspProGlnGlnSerTyrThrIle 138
QY      301 ACACTCTGGTCCACACGTAATCTGATGATCATATCCAGAAAGACACTGGCGTGA 360
Db      139 ThrValleuValProProhArgasnleuMetIleaspIleGlnYsaspThrAlaValGln 158
QY      361 GGTGAGAGATTTGAATCACTGACTGCTATGGCCACAGCCAGCCACTATCAG 420
Db      159 GlyGlnGlnIleGlnValasnYsthrAlaMetAlaSerlyspProAlaThrThrIleArg 178
QY      421 TGCTTCAAGGAGACACAGAGCTAAAGGCAATCGAGAGGTGGAAAGTGTGACAGATG 480
Db      179 TrpPheYsglyasnThrGlnleuYsglyysSerGlnValGlnGlnTrpSeraspMet 198
QY      481 TACACTGTGACAGTCACTGATGCTGAAGGTGCACAAAGGAGAGAGAGTGGGCTCCAGTG 540
Db      199 TyrThrValThrSerGlnleuMetleuYsValHisYsglnYsaspArglyValProVal 218
QY      541 ATCTGCAGGTGAGACACCTCGCGTCACTGGAACCTGCAGACCCAGCGGTATCTGAA 600
Db      219 IleYsglnValGlnHisProAlaValThrGlyasnleuGlnThrGlnArgTyrleuGln 238
QY      601 GTACAGTATAGCTCAAGTGCACATTCAGATGACTATCTCTACAAAGGCTTAACCCGG 660
Db      239 ValGlnTrpYsProGlnValHisIleGlnMetThrTyrProleuGlnGlyLeuThrArg 258
QY      661 GAAGGGAGCCGCTTGAAGTAAACATGTGAAGCCATCGGAAGCCCAAGCCGTGATGTA 720
Db      259 GlnGlyaspAlaIleuGlnleuThrCysGlnAlaIleGlyysProGlnProValMetVal 278
QY      721 ACTTGGGTGAGAGTCCATGATGAATGCCCTACACGCCGCTACTGCTGGGCCAACCTG 780
Db      279 ThrThrValArgValAspArgGlnMetProGlnHisAlaValleuSerGlyProasnleu 298
QY      781 TTGATCAATAGCTAAACAAACAGATGAATGATATACCGCTGTAAGCTTCAACATA 840
Db      299 PheIleasnsmneuasnlYsthrAspAsnGlyThrTyrArgCysGlnAlaSerAsnIle 318
QY      841 GTGGGGAAGCTACTCGGATTAATGCTATATGCTATATAGATCCCCCAACATATCCCT 900
Db      319 ValGlyYsAlaHisSerAspTyrMetleuTyrValTyrAspProProThrThrIlePro 338
QY      901 CCTGCCAACAACACACACACACACACACACACACACACACACATCTTACCATATC 960
Db      339 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrIleleuThrIleIle 358
QY      961 ACAGATTCGCGAGCA 975
Db      359 ThrAspSerArgAla 363

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RESULT 11
ID AAB88427 standard; protein; 443 AA.
XX
AC AAB88427;

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XX      23-MAY-2001 (first entry)
DT
XX      Human membrane or secretory protein clone PSEC0200.
DE
XX      Human; secretory protein; membrane protein; vaccine; gene therapy;
KW      rheumatoid arthritis; diabetes.
XX
OS      Homo sapiens.
XX
PN      EPI067182-A2.
XX
PD      10-JAN-2001.
XX
PE      07-JUL-2000; 2000EP-0114090.
XX
PR      08-JUL-1999; 99JP-0194179.
PR      11-JAN-2000; 2000JP-0118775.
PR      02-MAY-2000; 2000JP-0183766.
XX
PA      (HELI-) HELIX RES INST.
XX
PT      Oca T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;
DR      WPI; 2001-093989/11.
DR      N-PSDB; AAF93854.
XX
PT      Nucleic acids encoding secretory proteins/membrane proteins, useful in
PT      gene therapy or as candidate target molecules in drug development -
XX      Claim 1; SEQ ID 222; 609pp + CD ROM; English.
XX
CC      This invention relates to nucleic acid sequences AAF93744 - AAF93916
CC      which encode human secretory or membrane proteins represented by
CC      AAB88317 - AAB88419. Included in the invention are primers
CC      AAF93917 - AAF94295 and AAF62232 - AAF62235 which are used to isolate the
CC      cDNA sequences of the invention. The invention also includes methods for
CC      the production of antibodies directed against the proteins, and cDNA
CC      sequences, which can be used in vaccines. The polynucleotide sequences
CC      can be used in gene therapy. The polynucleotide sequences and the
CC      proteins they encode may be used in the prevention, treatment and
CC      diagnosis of diseases associated with inappropriate secretory
CC      protein/membrane protein expression. The nucleic acids and complementary
CC      sequences may also be used as DNA probes in diagnostic assays
CC      (e.g. polymerase chain reactions (PCR)) to detect and quantify the
CC      presence of similar nucleic acid sequences in samples. They may also be
CC      used to study the expression and function of secretory proteins/membrane
CC      polypeptides and their role in metabolism. The polypeptides may be used
CC      as antigens in the production of antibodies against them and in assays to
CC      identify modulators (agonists and antagonists) of expression and
CC      activity. The antibodies and antagonists may also be used as therapeutic
CC      agents to down regulate expression and activity. The antibodies may also
CC      be used as diagnostic agents for detecting the presence of the
CC      polypeptides in samples (e.g. by enzyme linked immunosorbant assay
CC      (ELISA). Examples of diseases which may be treated include rheumatoid
CC      arthritis and diabetes.
XX
SQ      Sequence 443 AA:

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Alignment Scores:
Pred. No.: 2.16e-137 Length: 443
Score: 1612.50 Matches: 312
Percent Similarity: 93.77% Conservative: 4
Best local Similarity: 92.58% Mismatches: 20
Query Match: 89.53% Indels: 1
DB: 22 Gaps: 1

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US-09-778-187B-1_COPY_130_1137 (1-1008) x AAB88427 (1-443)

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QY      1 ATCCACAGGTGATGGGACAGAAATCTGTTTACGAAGAAGCTGACAGTATCAGGAGAG 60
Db      39 11leProthrglyaspGlylnasnleuPheThrlyaspValThrVal11leGlnGlylu 58

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[illegible]

KM	Human; secreted protein; nutritional; cytokine; cell proliferation;
KW	differentiation; immune stimulating; vaccine; suppression;
KM	haematopoiesis regulation; tissue growth; activin; inhibin;
KM	chemotactic; chemokine; haemostatic; thrombolytic; receptor;
KM	ligand; anti-inflammatory; cadherin; tumour invasion suppressor;
KM	tumour inhibition; gene therapy.
XX	
OS	Homo sapiens.
XX	
PN	WO957132-A1.
XX	
PD	11-NOV-1999.
XX	
PE	07-MAY-1999; 99WO-US09970.
XX	
PR	07-MAY-1998; 98US-0084564.
PR	02-JUN-1998; 98US-0087645.
PR	22-JUL-1998; 98US-0093712.
PR	31-JUL-1998; 98US-0094935.
PR	10-AUG-1998; 98US-0095880.
PR	11-AUG-1998; 98US-0096068.
PR	06-MAY-1999; 99US-0096068.
XX	
PA	(GENY) GENETICS INST INC.
PI	Jacobs K, McCoy JM, LaValle ER, Collins-Racie LA, Evans C;
PI	Mehberg D, Treacy M, Agostino MJ, Steininger RJ, Bowman MR;
PI	Diblasio-Smith E, Widom A.
DR	WPI: 2000-052937/04.
XX	N-PSTDB: AA233346.
PT	New polynucleotides encoding secreted human proteins, derived from
XX	adult placenta, adult retina, fetal brain, fetal
PS	Claim 71; Page 416-417; 492pp; English.
CC	The present invention describes new human secreted proteins which were
CC	isolated from adult placenta, adult retina, foetal brain, foetal kidney
CC	adult blood, adult brain, adult thyroid, adult bladder, adult neural
CC	tissue, adult testes, and adult lymph node cDNA libraries. The human
CC	secreted proteins, and the polynucleotides encoding them, are predicted
CC	to have biological activities which would make them suitable for
CC	treating, preventing or ameliorating medical conditions in humans and
CC	animals. Suggested activities include nutritional activity, cytokine
CC	and cell proliferation/differentiation activity, immune stimulating
CC	(e.g. as vaccines) or suppressing activity, haematopoiesis regulating
CC	activity, tissue growth activity, activin/inhibin activity,
CC	chemotactic/chemokinetic activity, haemostatic and thrombolytic
CC	activity, receptor/ligand activity, anti-inflammatory activity,
CC	cadherin/tumour invasion suppressor activity, and tumour inhibition
CC	activity. The polynucleotides are also stated to be useful for gene
CC	therapy. AA233316 to AA233373 encode human secreted proteins, and
CC	AA252998 to AA253060 represent human secreted proteins, given in the
XX	present invention.
SQ	Sequence 414 AA;
Alignment Scores:	
Pred. NO.:	1.88e-135 Length: 414
Score:	1591.00 Matches: 308
Percent Similarity:	91.67% Conservative: 0
Best Local Similarity:	91.67% Mismatches: 0
Query Match:	88.34% Indels: 28
DB:	Gaps: 1
US-09-778-187B-1_COPY_130_1137 (1-1008) x AAY53028 (1-414)	
QY	1 ATCCCCACAGGTGATGGCACAATCTGTTTTCGAAAGACGTCGATCGAGGAGAG 60
Db	39 IIEPOTRITGCIYASPGIYGLNAsINdeuPhenThyrAspAlrInrValIIegInGIyGlu 58

QY 61 GTTGGACCATCAGTGGCCAGTCAATAAGAGCAGCACTCTGTGATTCAGCTACTGTAAT 120
DB 59 ValAlaThrIleSerCysGlnValAlaSnlySerAspSerValIleGlnLeuLeuAsn 78
QY 121 CCCAAGAGGACGACCATTTATTTCAGGAGCTTCAGGCGCTTTGAAGAGCAGACAGCTTTACG 180
DB 79 ProSnaRgIInThrlIeTyRPhaRgAspPhaRgProLeuLysAspSerArRgPhaGln 98
QY 181 TTGCTGATTTTCTACAGTCACTCAATATCATATTCATGACCAACGCTCAATTTTCGAT 240
DB 99 LeuLeuAsnPhSerSerSerSerGlnLeuLysValSerLeuThrAsnValSerIleSerAsp 118
QY 241 GAAGGAAGATCTTTTCCACGCTCTATACCGATCCCCACAGGAAGTTACACCAACATC 300
DB 119 GluGlyArRgTyRPhaCysGlnLeuTyRThrAspProProGlnGlnSerTyRThrIle 138
QY 301 ACAGTCTGTGGCCACACGTAATCTGATGATCATATCCGAAGAAAGACACTGCGGTGAA 360
DB 139 ThrValLeuValProProAsnLeuMetIleAspIleGlnLysAspThrAlaValGln 158
QY 361 GGTGAGAGATTTGAGTCACTGCTATGCGCCAGCAAGCCAGCAGCAGCTATCAGG 420
DB 159 GlyGluGlnIleGlnValAsnGlyThrAlaMetAlaSerLysProAlaThrThrIleArg 178
QY 421 TGGTTCAAGGGAACACAGAGCTAAAGCAAAATCGAGGTGAAGAGTGTCTACAGATG 480
DB 179 TrpPhaLysGlnSerThrGlnLeuLysGlyLysSerGlnValGlnGlnLysTrpSerAspMet 198
QY 481 TACACTGTGACCACTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 540
DB 199 TyRThrValThrSerGlnLeuMetLeuLysValHisLysGlnAspArgLysValProVal 218
QY 541 ATCTGCCAGGTGGAGCACCCTGCGCTACTGGAACCTGCAGACCCAGCGCTATCTAGAA 600
DB 219 IleGlyGlnValGlnHisProAlaValThrGlyAsnLeuGlnThrGlnAlaGlyTyRLeuGln 238
QY 601 GTACAGTATTAAGCTCAAGTGCACATTCAGATGACTTATTCCTCTACAAAGCCTTAACCCGG 660
DB 239 ValGlnTyRAspProGlnValHisIleGlnMetThrTyRProLeuGlnGlyLeuThrArg 258
QY 661 GAAGGGAGCGGCTGTGATTAACATGGAAGCCATGGGAAAGCCCGCTGTGATGTA 720
DB 259 GlnGlyAspAlaLeuGlnLeuThrCysGlnAlaIleGlyLysProGlnProValMetVal 278
QY 721 ACTTGGGTGAGAGTGCATGATGAATGCTCAACACGCCCTACTGTGTGGGCCCAACCTG 780
DB 279 ThrTrpAlaRgValAspArgLysMetProGlnHisAlaValLeuSerGlyProAsnLeu 298
QY 781 TTGATCAATTAACCTAAACAACAAGATTAATGTAATACCGCTGTGAAGCTTCAACATA 840
DB 299 PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrTyRArgCysGlnAlaSerAsnIle 318
QY 841 GTGGGAAACCTCAGTGGGATTATATGCTGTATGATATACATCCCCCAACAATATCCCT 900
DB 319 ValGlyLysAlaHisSerAspTyRMetLeuTyRValTyR----- 331
QY 901 CTCTCCACAACAACCAACACACACACACACACACACACACACACATCTTACCATCATC 960
DB 331 ----- 331
QY 961 ACAGATTCCTCCAGCAGGTGAAGAAGCTCGATGAGGCGCATGATCAT 1008
DB 332 ---AspSerArRgAlaGlyGlnGlySerIleArgAlaValAspHis 346
RESULT 13
AAB25593
ID AAB25593 standard; Protein; 229 AA.
XX
AC AAB25593;
XX
DT 21-NOV-2000 (first entry)
XX
DE Protein encoded by human secreted protein gene #11 clone H0UDJ81.

XX
KW Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic;
KW antirheumatic, dermatological; antiproliferative; antiarteriosclerotic;
KW anticancer; vulnery; antiviral; antibacterial; antifungal;
KW Immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;
KW Multiple sclerosis; inflammatory disorder; inflammatory bowel disease;
KW Crohn's disease; nephritis; hyperproliferative disorder;
KW cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;
KW melanoma; lymphoma; wound healing; human.
OS Homo sapiens.
PN WO200029435-A1.
PD 25-MAY-2000.
PF 27-OCT-1999; 99WO-US25031.
PR 28-OCT-1998; 98US-0105971.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
PI Ni J, Ruben SM, Olsen HS, Young PE, Kenny JT, Moore PA, Wei Y;
PI Greene JM;
DR WPI; 2000-387742/33.
XX
PT Isolated nucleic acid molecules encoding human secreted proteins are
PT used for the prevention, amelioration and treatment of autoimmune,
PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,
PT wounds, and infectious diseases -
XX
PS Claim 1; Page 685-686; 803pp; English.
XX
CC The present invention relates to 12 secreted human proteins and the
CC nucleotide sequences encoding them. The polynucleotide sequences given
CC in AAB80606-A80623 encode the 12 secreted protein sequences given in
CC AAB25576-B25593. The human secreted proteins have various activities
CC dependent on the tissues in which they are expressed. Examples of the
CC activities of the proteins include: immunosuppressant;
CC anti-inflammatory; antiarthritic; antirheumatic, dermatological;
CC antiproliferative; antiarteriosclerotic; anticancer; vulnery;
CC antiviral; antibacterial; and antifungal activity. The proteins,
CC polypeptides, agonists and antagonists may be used to treat prevent
CC and/or diagnose various disease, disorders and conditions examples of
CC which include: immune disorders e.g. Addison's disease, rheumatoid
CC arthritis, dermatitis, and multiple sclerosis; inflammatory disorders
CC e.g. inflammatory bowel disease, Crohn's disease and nephritis;
CC hyperproliferative disorders such as paraneoplasms and purpura;
CC cardiovascular disorders e.g. coronary arteriosclerosis and myocarditis;
CC cancer e.g. melanoma and lymphoma. The proteins and polynucleotide
CC sequences may also be used in wound healing and the treatment of
CC infectious diseases. The human secreted protein gene #11 and protein
CC sequences are represented in sequences AAB80616 and AAB25586. Sequences
CC AAB80677-A80682 represent genes related to the secreted protein gene#11.
XX
SQ Sequence 229 AA:
Alignment Scores:
Pred. No.: 3.44e-97 Length: 229
Score: 1167.50 Matches: 225
Percent Similarity: 98.68% Conservative: 0
Best Local Similarity: 98.68% Mismatches: 1
Query Match: 64.83% Indels: 2
DB: 21 Gaps: 1
US-09-778-187B-1_COPY_130_1137 (1-1008) x AAB25593 (1-229)
QY 328 ATGATGATATCCAGAAAGCACTGCGGTGAGTGAAGTCAAGTCACTGCACT 387
DB 1 MetIleAspIleGlnLysAspThrAlaValGlnGlnIleGlnValAsnGlyThr 20
QY 388 GCTATGCGCCAGCAAGCAGCAGCTATCAGGTGTTCAAGGAACACAGAGCTAAAA 447


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Db 21 AlMeAlaLeSerLysProAlaThrThrIleArgTrpPheLysGluSerThrGluLeuLys 40
Oy 448 GCGAAATCGAGAGTGGAGAGTGGTGCAGACATGTACACTGTGACGAGTGCAGTGCATGTC 507
Db 41 GlyLysSerGluValGluGluTrpSerAspMetTrThrValIleSerGlnLeuMetLeu 60
Oy 508 AAGGTGCACAGAGAGAGCATGGGGTCCCAAGTCATGTCCAGGTGAGAGACCTGGCGTC 567
Db 61 LysValIleLysGluAspArgLysValProValIleCysGluValGlnIleProAlaVal 80
Oy 568 ACTGGAACCTGCAGACCCAGCGGTATCTAGAAGTACAGTATAGCTTCAAGTGCACAT 627
Db 81 ThrGluAsnLeuGlnThrGlnArgTrpLeuGluValGlnTrpLysProGlnValIle 100
Oy 628 CAGATGACTTATCTCTACAGGCTTAACCCGGAGAGGAGCGCTTGAGTTAAATCATGT 687
Db 101 GlnMetThrTrpProLeuGlnGlyLeuThrArgGluGlyAspAlaLeuGluLeuThrCys 120
Oy 688 GAACCCATCGGGAGAGCCCGAGCCTGTGATGTAACCTTGGGTGAGAGTGCATGTAATG 747
Db 121 GluAlaIleGlyLysProGlnProValMetValThrTrpValArgValAspArgLysMet 140
Oy 748 CCTCAACAGCCGCTACTGTCTGGGCCAACCTGTTCATATACCTTAACAACAAACAGAT 807
Db 141 ProGlnIleAlaValLeuSerGlyProAsnLeuPheIleAsnAsnLeuAsnLysThrAsp 160
Oy 808 AATGGTACATACCGCTGTAGAGCTTCAACATAGTGGGAAAGCTACACGCTTATATG 867
Db 161 AsnGlyThrTrpArgCysGlnAlaSerAsnIleValGlyAlaIleSerAspTrpMet 180
Oy 868 CTGTATGTATACAGATCCCGCCACAACTATCCCTCTCCACAAACACACACACACAC 927
Db 181 LeuTrpValIleAspProProThrThrIleProProProThrThrThrThrThrThr 200
Oy 928 ACCACCAACCAACCAACCACTCTTACCATCATCAGATATCCCGAG---CAGGTGAAGA 984
Db 201 ThrThrThrThrThrThrThrIleLeuThrIleIleThrAspSer-ProSerGlnValLys 220
Oy 985 GCCTGCATCAGGAGCATGCATC 1006
Db 220 bAlaArgSerGlyGlnTrpIle 227

RESULT 14
AAM78418
ID AAM78418 standard; Protein; 387 AA.
XX
AC AAM78418;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human protein SEQ ID NO 1080.
XX
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorder; arthritis; inflammation.
XX
OS Homo sapiens.
XX
PN WO200157190-A2.
XX
PD 09-AUG-2001.
XX
PF 05-FEB-2001; 2001WO-US04098.
XX
PR 03-FEB-2000; 2000US-0496914.
PR 27-APR-2000; 2000US-0560875.
PR 20-JUN-2000; 2000US-0598075.
PR 19-JUL-2000; 2000US-0620325.
PR 01-SEP-2000; 2000US-0654936.
PR 15-SEP-2000; 2000US-0663561.
PR 20-OCT-2000; 2000US-0693325.
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PR 30-NOV-2000; 2000US-0728422.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang XT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;
PI Zhao Qa, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
PI Xue AJ, Yang Y, Wejhrman T, Goodrich R;
DR MPI: 2001-476283/51.
DR N-PSDB: AAK51551.
PT Nucleic acids encoding polypeptides with cytokine-like activities,
PT useful in diagnosis and gene therapy -
XX
PS Claim 20; Page 3307-3308; 6221pp; English.
XX
CC The invention relates to polynucleotides (AAK51456-AAK53435) and the
CC encoded polypeptides (AAM78323-AAK80302) that exhibit activity relating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, hematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.
CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
CC (AAM80020) are omitted as the relevant pages from the sequence listing
XX were missing at the time of publication.

SQ Sequence 387 AA:

Alignment Scores:
Pred. No.: 2 21e-48 Length: 387
Score: 629.00 Matches: 124
Percent Similarity: 61.39% Conservative: 62
Best Local Similarity: 40.92% Mismatches: 111
Query Match: 34.93% Indels: 6
DB: Gaps: 3

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Oy 10 GGTGATGGGAGAAATCTGTTACGAAAGACGTGCAGATGCAGGAGAGTTCGGAC 69
Db 21 GlyAlaGlyGlnGlnValGlnThrGlnAsnValThrValAlaGluGlyValAlaGlu 40
Oy 70 ATCAGTTGCCAAGTCAATTAAGAGTGCAGACTGTGTATTCAGCTACTGAATCCCAACAG 129
Db 41 IleThrCysArgLeuIleHisGlnTrpAspGlySerIleValValIleGlnAsnProAlaArg 60
Oy 130 CAGACCATTTATTTACAGGGGCTTCAGGCGCTTGAAGACAGCAGGTTTCAGTGAAT 189
Db 61 GlnThrLeuPheHisnGlnIleArgAlaLeuLysAspGluArgPheGlnLeuGlu 80
Oy 190 TTTTCTAGCAGTGAACCTCAAGATATCATTCAGCAACAGTCTCAATTTCTGATGAAGAGA 249
Db 81 PheSerProArgAlaArgValArgIleArgLeuSerAspAlaArgLeuGlnAspGluGly 100
Oy 250 TACTTTGCCAGCTATAGCCGATCCSSACAGAAAGTTACACACACATCAGATCTCTG 309
Db 101 TyrPheCysGlnLeuIleTrpGluAspThrHisnGlnIleAlaThrTrpValLeu 120
Oy 310 GTTCCACAGCTAATCTGATGATCGATATCCAGAAAGACACCTCGGTGGAGGTAGAGAG 369
Db 121 ValAlaProGluAsnProValValGluVal---ArgGluGlnAlaValGluGlyGlu 139
Oy 370 ATTGAATCAACTGCAGCTGTATGGCCAGCAAGCCAGCCAGCATTCAGAGTGGTTCAAA 429
Db 140 ValGluLeuSerCysLeuValProArgSerArgProAlaIleThrLeuArgTrpTrpArg 159
Oy 430 GGGACACAGAGCTAAAGGCAAAATCGAGAGGTGGAAGAGTGGTCAGACATGTTCAC 489
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Db 160 AsparglysgluLeuLysglyValSerSerSerGlnGlnGlnGlyValTyrSerVal 179
QY 490 ACCAGTCAGCTGATGCTGAAGGTGCACAGAGAGCATGGGTCACAGTATGTCACG 549
Db 180 AlaserThyValArgPheArgValAsparGlyAspAspGlyGlyIleIleIleCysGlu 199
QY 550 GTGAGACACCCCTGGCTCACTGGA-----AACCTGCAGACCCGCGTATCTAGAAGTA 603
Db 200 AlaglnsnGlnAlaLeuProSerGlyHisSerLysGlnThrGlnGlyValLeuAspVal 219
QY 604 CAGATTAAGCTTCAGAGGCACATTACAGATTCATTCTTACAGAGCTTAACCCGGGAA 663
Db 220 GlnTyrSerProThrAlaArgIleHisAlaSer-----GlnAlaValAlaArgGlu 236
QY 664 GGGAGACCCGCTTGAGTAACTGAAGCCAGCCGCGCTGTGATGTTACT 723
Db 237 GlnAspThrLeuValLeuThrCysAlaValThrGlnsnProArgProAsnGlnIleArg 256
QY 724 TGGGTGAGAGTCGATGATGAATGCTCAACAGCCGCTACTGTCGTGGCCCAACTGTC 783
Db 257 TrpAsnArgGlyAsnGlnSerLeuProGluArgAlaGlnAlaValGlyGluThrLeuThr 276
QY 784 ATCAATTAACCTTAACAACAAGATATAGTACATACCGCTGTGAAGCTTAACATATGTG 843
Db 277 LeuProGlyLeuValSerAlaAspAsnGlyThrTyrThrCysGlnAlaSerAsnLysHis 296
QY 844 GGGAAAGCTCGATCGATTAATGCTGATGATGATGATGATGATGATGATGATGATGAT 903
Db 297 GlnHisAlaAlaLeuThrValLeuValValIleTyrAspProGlyAlaValGluAla 316
QY 904 CCCACACA 912
Db 317 GlnThrSer 319
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XX
XX AAY33741;
AC
XX
XX 09-NOV-1999 (first entry)
DE Beta-secretase.
XX
XX Beta-secretase; beta-amyloid protein precursor; APP; Down's syndrome;
KM Alzheimer's disease.
XX
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
FT Peptide 1..23 /label= Signal_peptide
FT Protein 24..444 /label= beta-secretase
FT Region 377..399 /note= "Putative transmembrane region"
FT
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PN US942400-A.
XX
PD 24-AUG-1999.
XX
XX 07-JUN-1996; 96US-0659984.
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XX 07-JUN-1996; 96US-0659984.
PR 07-JUN-1995; 95US-0480498.
PR 07-JUN-1995; 95US-0485152.
XX
XX (ELAN-) ELAN PHARM INC.
XX
XX Anderson JP, Jacobson-Croak KL, Sinha S.
XX WPI; 1999-517417/43.
XX DR N-PSDB; AA206640.
DR

XX
PT A method for detecting human beta-secretase cleavage of polypeptides
PR useful for identifying beta-secretase inhibitors
XX
XX Examples: Fig 1; 43pp; English.
XX
XX This sequence is the human beta-secretase enzyme polynucleotide.
CC Beta-secretase is capable of cleaving the beta-amyloid precursor protein
CC (APP) (AAY33742; Swedish mutant APP). This enzyme is used in a method for
CC detecting human beta-secretase cleavage of polypeptides and for
CC identifying human beta-secretase inhibitors. The protein has a deduced
CC molecular weight of 49 kD, although this is without glycosylation and
CC the expected molecular weight is therefore higher. Inhibition of
CC beta-secretase activity would be useful for chemical modelling of a
CC critical event in the pathology of Alzheimer's disease. Inhibitors of
CC beta-secretase would be useful for the prevention and treatment of
CC Alzheimer's disease and Down's Syndrome.
XX
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XX
XX Alignment Scores:
pred. No.: 7.23e-48 Length: 444
Score: 623.50 Matches: 137
Percent Similarity: 57.83% Conservative: 66
Best Local Similarity: 39.03% Mismatches: 121
Query Match: 34.62% Indels: 27
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QY 76 TGCCAAAGTCAATTAAGAGTACGACTCTGTGATTCAGTACTGAATCCCAAGAGCAGACC 135
Db 53 CysArgValAspGlnAsnAspAsnThrSerLeuGlnThrSerAsnProAlaGlnGlnThr 72
QY 136 ATTATTTTCAGAGGACTTCAGGCTTTCAGACAGCAGGTTTCAGTTCGATTTTTC 195
Db 73 LeuTyrPheAspAspLysLysAlaLeuArgAspAsnArgIleGluLeuValAlaGlnAlaSer 92
QY 196 AGCAGTGAATCTGAATGATATGACAAAGCTGATTCATTTCTGATGAGAGAGATACTTT 255
Db 93 ThrPheGlnLeuSerIleSerValSerAlaSerLeuSerAspGlnGlnIleTyrThr 112
QY 256 TGCCAGCTCTAATCCGATCCGCCACAGAAAGTTTACACACATCACAGTCTGTCCTCCA 315
Db 113 CysSerLeuPheThrMetProValLysThrSerLysAlaTyrLeuThrValIleGlyVal 132
QY 316 CCAAGTAAATCTGAATGATTCATTCACAAAGACATCCGCTGGAAGGTGAGCATTTGAA 375
Db 133 ProGluLysProGlnIleSerGlyPheSerSerProValMetGluGlyAspLeuMetGln 152
QY 376 GTCAACTGACCTGCTATGCGCACCAAGCCACAGCAGTATCAGGTGTTCAAGGGAAC 435
Db 153 LeuThrCysLysThrSerGlySerLysProAlaAlaAspIleArgTyrPheLysAsnAsp 172
QY 436 ACAAGAGCTAAAGCAAAATCGAGGTGGAAGAGTGTCA-----GACATGTACT 486
Db 173 LysGlnIleLysAspValLysTyrLeuLysGlnGluAspAlaAsnArgLysThrPheThr 192
QY 487 GTGACAGTCAGCTGATGCTGAAGGTGCACAGAGAGCATGGGTCACAGATCTGC 546
Db 193 ValSerSerThrLeuAspPheArgValAspArgSerAspGlyValAlaIleCys 212
QY 547 CAGGTGAGACCCCTGGCTCACTGGAACCTCAG-----ACCCAGGCTATCTAGAAGTA 603
Db 213 ArgValAspHisGlnSerLeuAsnAlaThrProGlnValAlaMetGlnValLeuGluIle 232
QY 604 CAGTAAAGCTTCAGAGTGCACATTCAGAGTCTTAATCTCTACAGAGCTTAACCCGGGAA 663
Db 233 HisTyrThrProSerValLysIle-----IleProSerThrProPheProGlnGlu 249

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GenCore version 5.1.3
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Run on: November 20, 2002, 07:56:11 ; Search time 8.5 Seconds
(without alignments)
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Perfect score: 1801

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Searched: 100480 segs, 15661496 residues

Total number of hits satisfying chosen parameters: 200960

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Post-processing: Minimum Match 0%
Maximum Match 100%
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	1761	97.8	440	9	US-09-944-403-61 Sequence 61, Appl
3	1761	97.8	440	9	US-09-944-896-61 Sequence 61, Appl
4	1761	97.8	440	10	US-09-866-028-61 Sequence 61, Appl

5	1761	97.8	440	10	US-09-944-449-61 Sequence 61, Appl
6	1761	97.8	440	10	US-09-944-457-61 Sequence 61, Appl
7	1761	97.8	440	10	US-09-944-862-61 Sequence 61, Appl
8	1761	97.8	440	10	US-09-945-587-61 Sequence 61, Appl
9	1761	97.8	440	10	US-09-945-015-61 Sequence 61, Appl
10	1761	97.8	440	10	US-09-944-396-61 Sequence 61, Appl
11	1761	97.8	440	10	US-09-944-097-61 Sequence 61, Appl
12	1761	97.8	440	10	US-09-944-432-61 Sequence 61, Appl
13	1761	97.8	440	10	US-09-943-762-61 Sequence 61, Appl
14	1761	97.8	440	10	US-09-944-654-61 Sequence 61, Appl
15	1761	97.8	440	10	US-09-943-851A-61 Sequence 61, Appl
16	1761	97.8	440	12	US-10-052-586-34 Sequence 34, Appl
17	1761	97.8	442	9	US-09-778-510-20 Sequence 20, Appl
18	1761	97.8	442	9	US-09-778-187B-2 Sequence 22, Appl
19	1741	96.7	423	9	US-09-778-510-22 Sequence 4, Appl
20	1741	96.7	423	9	US-09-778-187B-4 Sequence 79, Appl
21	482.5	26.8	398	9	US-10-047-542-79 Sequence 4, Appl
22	482.5	26.8	398	9	US-09-778-510-4 Sequence 4, Appl
23	471.5	26.2	398	9	US-09-905-291A-84 Sequence 84, Appl
24	471.5	26.2	398	9	US-09-778-510-6 Sequence 6, Appl
25	471.5	26.2	398	9	US-09-778-187B-10 Sequence 10, Appl
26	471.5	26.2	398	10	US-09-745-763-102 Sequence 84, Appl
27	471.5	26.2	398	10	US-09-909-320-84 Sequence 84, Appl
28	471.5	26.2	398	10	US-09-909-086B-84 Sequence 2, Appl
29	469.5	26.1	432	9	US-09-778-510-2 Sequence 2, Appl
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31	219	12.2	344	9	US-09-978-295A-523 Sequence 523, App
32	219	12.2	344	9	US-09-966-546-4 Sequence 4, Appl
33	219	12.2	344	9	US-09-966-546-5 Sequence 523, App
34	219	12.2	344	9	US-09-978-697-523 Sequence 20, Appl
35	219	12.2	518	10	US-09-919-172-20 Sequence 794, App
36	218.5	12.1	749	10	US-09-764-853-605 Sequence 605, App
37	218.5	12.1	749	10	US-09-764-853-605 Sequence 440, App
38	214.5	11.9	1115	12	US-10-052-586-440 Sequence 90, Appl
39	210	11.7	1256	9	US-10-047-542-90 Sequence 17, Appl
40	206	11.4	734	10	US-09-925-551A-17 Sequence 113, App
41	205	11.4	737	10	US-09-925-301-1133 Sequence 80, Appl
42	204	11.3	652	9	US-10-047-542-80 Sequence 89, Appl
43	195.5	10.9	1362	9	US-10-047-542-89 Sequence 67, Appl
44	193.5	10.7	1395	9	US-09-808-602-67 Sequence 71, Appl
45	192.5	10.7	350	9	US-09-808-602-71

ALIGNMENTS

RESULT 1
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Sequence 61, Application US/09944413
Patent No. US2002015604A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Batstein, David
APPLICANT: Batstein, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,413
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
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PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US99/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
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PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520

PRIOR FILING DATE: February 28, 2001
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LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
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Db 77 ProasnarglntrlleryrphenargspheargprouleulysaspserrargphecIn 96
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QY 181 TTGCTGAATTTTCTACAGTGAAGTCAAGTATCATTCAGCAAACTGTCATTTCTGAT 240
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Db 97 leuenuasnpheserSerserSergluleulysValserleuthrnanValserlleSerasp 116
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QY 241 GAAGGAATATCTTTGCCAGCTCTATACCGATCCCCACAGCAAACTTACACCATC 300
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Db 117 GlulglyartrgyrphecysglnleulrThrAspProprogIngluseryrThrThrIle 136
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QY 301 ACAGTCTGTGGCCACACGATATCGATATGATGATTCAGAAAGCACTCGGGGTGAA 360
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Db 137 ThrValleuvalProproargasnleumetllespilleglInlyasprthrAlaValglu 156
|||
QY 361 GGTGACGAGATTGAATCACTGACCTGATGCGCCAGCAAGCCAGCCAGCTATCAGG 420
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Db 157 GlyglulglulleglvalaasnCysThrAlaMetAlaserlyspProalatrThrIlearg 176
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QY 421 TGCTTCAAGGGAACACAGACGCTAAAGGCAATCGAGGTGGAAGTGTGACAGATG 480
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Db 177 TrpPhelysglyasnThrIngluleulysgllyssergluValglulntrpserAspmet 196
|||
QY 481 TACACGTGACAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 540
|||
Db 197 TythrValalhrserglInleumetleulysValInllyseluspsrpglyvalProval 216
|||
QY 541 ATCTGCCAGGTGAGACACCTCGGCTCATCTGGAACCTGACAGCCAGCGTATCTGAAG 600
|||
Db 217 lleCysglInvalglunhrspProalavalThrCylasInleuglnhrInatrgTyIeuglu 236
|||
QY 601 GTACAGTATAGCTCAAGTGCACATTCAGATGACTATCTCTACAGGCTTAACCCGG 660
|||
Db 237 ValglInlyrlysprogInvalInlslleglmetThrlyrProleugIngllyleuthrarg 256
|||
QY 661 GAAGGGAGCGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
|||
Db 257 GlInglYAspAlaLeuGluleulnhrCysgluAlaIlegllyllysprogInProvalImeVal 276
|||
QY 721 ACTTGGGTGAGAGTGCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
|||
Db 277 ThrTrpAlarValalasparglumeprroglInlAlaValleuSergllyProasInleu 296
|||
QY 781 TTGATCATATACCTTAACCAACAGATATGATGATGATGATGATGATGATGATGATGAT 840
|||
Db 297 PheileasnInleuasnlysthrAspAsnGlyThrTyIarGysgluAlaSerAsnIle 316
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OY 841 GTGGGAAAGCTCAGTTCGATTTATATGCTGATATACGATCCCGACAGACTATCCCT 900
Db 317 ValGlyValSerLeuTyrMetLeuTyrValTyrAspProProThrThrIlePro 336
OY 901 CCTCCACAGACACGACACGACACGACACGACACGACACGACACGACACGACATC 960
Db 337 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr 356
OY 961 ACAGATTCGACAGAGTGAAGAGGTCGATCAGGCGACATGATCAT 1008
Db 357 ThrAspSerArgAlaGlyGluGluGlySerIleArgAlaValAspHis 372

RESULT 2
US-09-944-403-61
Sequence 61, Application US/09944403
Patent No. US20020165143A1

GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gertlisen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067, 411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069, 334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069, 696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069, 873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068, 017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070, 440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074, 086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074, 092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075, 945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112, 850
PRIOR FILING DATE: December 16, 1998

PRIOR APPLICATION NUMBER: 60/113, 296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146, 222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216, 021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218, 517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254, 311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Saplen
US-09-944-403-61

Alignment Scores:
Pred. No.: 7, 12e-116
Score: 1761.00
Percent Similarity: 100.008
Best Local Similarity: 100.008
Query Match: 97.78%
DB: 9
Matches: 440
Conservative: 336
Mismatches: 0
Indels: 0
Gaps: 0

US-09-778-187b-1_copy_130_1137 (1-1008) x US-09-944-403-61 (1-440)

OY 1 ATCCCAAGAGTGTATGGAGAAATCTGTTTACGAAGACGTGACAGTGCAGAGAG 60
Db 37 lIeProThrGlyAspGlyGlnAsnLeuPheThrLysAspValThrValIleGluGlu 56
OY 61 GTTCCGACATCACTGTCGCAAGTCATTAAGAGTGCAGACCTCTGATTCAGCTTCAAT 120
Db 57 ValAlaThrIleSerCysGlnValAsnLysSerAspSerValIleGlnLeuLeuAsn 76
OY 121 CCAACAGCAGACATTTTTCAGGAGACTTCAGGCTTGAAGACAGAGCTTTCAG 180
Db 77 ProAsnArgGlnThrIleTyrPheArgAspPheArgProLeuYasAspSerArgPheGln 96
OY 181 TTGCTGAATTTTCTACAGTGAATCAAGATTCATTCGACAAAGCTCTCAATTTTGAT 240

Db	97	LeuLeuAanPheSerSerSerGluLeuLeuValSerLeuPhePheValSerIleSerAsp	116
Oy	241	GAAGGAAAGATCTTTGGCAGCTGATATCCAGTCCCCACAGGAAAGTTACACCAATC	307
Db	117	GlUGlAaGgTyrPheCysGluLeuTyrThrAspProGlnGluSerTyrThrIle	136
Oy	301	ACAGTCTGTGTCGCCACCGATAATCTGATGATCGATATCCAGAAAGACACGCGGTGAA	360
Db	137	ThrValLeuValProProArgAsnLeuMetIleAspIleGlnTyrAspThrAlaValGlu	150
Oy	361	GGTGAGGAGATTGAAGTCAACTGCACCTCTTATGGCCAGAACCCAGCCACGACTATACG	422
Db	157	GlyGluGluIleGluValAsnCysThrAlaMetAlaSerLysProAlaThrThrIleArg	170
Oy	421	TGGTTCAAGGGAACACACAGACTAAAGCAAAATCGGAGGGAAGAGTGTCTAGACATG	480
Db	177	TrpPheLysGluAsnThrGluLeuLysLysSerGluValAlaGluIutPheSerMet	190
Oy	481	TACACTGTACCACTCAGCTGATGCTGAAGGTGCACAAGAAGAGATGGGGTCCAGT	540
Db	197	TyrThrValThrSerGlnLeuMetLeuLysValHisLysGluAspArgValProVal	210
Oy	541	ATCTCCAGGAGGAGACCCCGCGGTGCTACGTGGAAACCTGCAGACCCGCGGTATCTGAA	600
Db	217	IleCysGlnValGluHisProAlaValThrLysLysLeuGlnThrGlnAlaGlyTyrLeuGlu	230
Oy	601	GTACAGTAAACCTCAAGTGCACATTCAGATGACTTATCTCTACAAAGGCTTAACCGG	660
Db	237	ValGlnTyrLysProGlnValHisIleGlnMetThrTyrProLeuGlnGlyLeuThrArg	250
Oy	661	GAAGGGAGCGGGCTTGAGTTAACTGATCAACCCATCCGGAAGCCCGCAGCTGTGATGTA	720
Db	257	GluGlyAspAlaLeuGluLeuThrCysGluAlaIleGlyLysProGlnProValMetVal	270
Oy	721	ACTGGGAGAGAGTGCATGATGATGAATGGCTTCAACGCCCGTACTGTGGGGCCAACTG	780
Db	277	ThrTrpValArgValAspAspGluMetProGlnHisAlaValLeuSerGlyProAsnLeu	290
Oy	781	TTTCATCAATTAACCTTAACAAACAGATATGTACTATACGGCTGTGAAGCTTCAACATA	840
Db	297	PheIleAsnAsnLeuAsnLysThrAspAsnLysThrTyrArgCysGlnAlaSerAsnIle	310
Oy	841	GTGGGAAAGCTCACTCGGATTAATGCTGATATATACGATATACGATCCCGCACAGTACCT	900
Db	317	ValGlyLysAlaHisSerAspTyrMetLeuTyrValTyrAspProProThrThrIlePro	330
Oy	901	CTCTCCACACACACCACCACCACACACACACACACACACACACATCTTACCATATC	960
Db	337	ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrIleLeuThrIleIle	350
Oy	961	ACAGATCCCGAGCAGGTGAAGAAGGCTCATCGGCGACTGATCAT	1008
Db	357	ThrAspSerArgAlaGlyGluGluGlySerIleArgAlaValAspHis	372
RESULT 3			
US-09-944-896-61			
Sequence 61, Application us/09944896			
Patient No. US20020168715A1			
GENERAL INFORMATION:			
APPLICANT: Baker, Kevin			
APPLICANT: Bolstein, David			
APPLICANT: Batton, Dan			
APPLICANT: Ferrara, Napoleone			
APPLICANT: Filvaroff, Ellen			
APPLICANT: Gerdtzen, Mary			
APPLICANT: Goddard, Audrey			
APPLICANT: Godowski, Paul			
APPLICANT: Grimaldi, Christopher			
APPLICANT: Gurney, Austin			
APPLICANT: Hillan, Kenneth			
APPLICANT: Kljavin, Ivar			
APPLICANT: Napier, Mary			
APPLICANT: Roy, Margaret			

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1  APPLICANT: Tumas, Daniel
2  APPLICANT: Mood, William
3  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
4  TITLE OF INVENTION: ACIDS ENCODING THE SAME
5  FILE REFERENCE: P2548P1C1
6  CURRENT APPLICATION NUMBER: US/09/944,896
7  CURRENT FILING DATE: 2001-08-31
8  PRIOR APPLICATION NUMBER: 09/866, 028
9  PRIOR FILING DATE: 2001-05-25
10 PRIOR APPLICATION NUMBER: 60/069,334
11 PRIOR FILING DATE: December 11, 1997
12 PRIOR APPLICATION NUMBER: 60/069335
13 PRIOR FILING DATE: December 11, 1997
14 PRIOR APPLICATION NUMBER: 60/069,278
15 PRIOR FILING DATE: December 11, 1997
16 PRIOR APPLICATION NUMBER: 60/069,425
17 PRIOR FILING DATE: December 12, 1997
18 PRIOR APPLICATION NUMBER: 60/069,696
19 PRIOR FILING DATE: December 16, 1997
20 PRIOR APPLICATION NUMBER: 60/069,694
21 PRIOR FILING DATE: December 16, 1997
22 PRIOR APPLICATION NUMBER: 60/069,702
23 PRIOR FILING DATE: December 16, 1997
24 PRIOR APPLICATION NUMBER: 60/069,870
25 PRIOR FILING DATE: December 17, 1997
26 PRIOR APPLICATION NUMBER: 60/069,873
27 PRIOR FILING DATE: December 17, 1997
28 PRIOR APPLICATION NUMBER: 60/068,017
29 PRIOR FILING DATE: December 18, 1997
30 PRIOR APPLICATION NUMBER: 60/070,440
31 PRIOR FILING DATE: January 5, 1998
32 PRIOR APPLICATION NUMBER: 60/074,086
33 PRIOR FILING DATE: February 9, 1998
34 PRIOR APPLICATION NUMBER: 60/074,092
35 PRIOR FILING DATE: February 9, 1998
36 PRIOR APPLICATION NUMBER: 60/075,945
37 PRIOR FILING DATE: February 25, 1998
38 PRIOR APPLICATION NUMBER: 60/112,850
39 PRIOR FILING DATE: December 16, 1998
40 PRIOR APPLICATION NUMBER: 60/113,296
41 PRIOR FILING DATE: December 22, 1998
42 PRIOR APPLICATION NUMBER: 60/146,222
43 PRIOR FILING DATE: July 28, 1999
44 PRIOR APPLICATION NUMBER: PCT/US99/19330
45 PRIOR FILING DATE: September 16, 1998
46 PRIOR APPLICATION NUMBER: PCT/US98/25108
47 PRIOR FILING DATE: December 1, 1998
48 PRIOR APPLICATION NUMBER: 09/216,021
49 PRIOR FILING DATE: December 16, 1998
50 PRIOR APPLICATION NUMBER: 09/218,517
51 PRIOR FILING DATE: December 22, 1998
52 PRIOR APPLICATION NUMBER: 09/254,311
53 PRIOR FILING DATE: March 3, 1999
54 PRIOR APPLICATION NUMBER: PCT/US99/12252
55 PRIOR FILING DATE: June 22, 1999
56 PRIOR APPLICATION NUMBER: PCT/US99/21090
57 PRIOR FILING DATE: September 15, 1999
58 PRIOR APPLICATION NUMBER: PCT/US99/28409
59 PRIOR FILING DATE: No. US20020167155,member 30, 1999
60 PRIOR APPLICATION NUMBER: PCT/US99/28313
61 PRIOR FILING DATE: No. US20020167155,member 30, 1999
62 PRIOR APPLICATION NUMBER: PCT/US99/28301
63 PRIOR FILING DATE: December 1, 1999
64 PRIOR APPLICATION NUMBER: PCT/US99/30095
65 PRIOR FILING DATE: December 16, 1999
66 PRIOR APPLICATION NUMBER: PCT/US00/03565
67 PRIOR FILING DATE: February 11, 2000
68 PRIOR APPLICATION NUMBER: PCT/US00/04414
69 PRIOR FILING DATE: February 22, 2000
70 PRIOR APPLICATION NUMBER: PCT/US00/05841
71 PRIOR FILING DATE: March 2, 2000
72 PRIOR APPLICATION NUMBER: PCT/US00/08439
73 PRIOR FILING DATE: March 30, 2000

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PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-896-61

Alignment Scores:

Pred. No.:	7,12e-116	Length:	440
Score:	1761.00	Matches:	336
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	97.78%	Indels:	0
DB:	9	Gaps:	0

US-09-778-187b-1_copy_130_1137 (1-1008) x US-09-944-896-61 (1-440)

OY 1 ATCCCCAGAGTGATGGCGAGATCTGTTTACGAAAGAGCTGACATGATCGAGGAGAG 60
DB 37 ILEPOTHRGLYASPOLYGLNASNLEUPHERNLYSASPVALTHRVALLIEGLUGLYGLU 56
OY 61 GTTGGCAGCATCATGTTGCCAAGTCAATTAAGAGTACAGCTGTGTGATTGACTGATGAAT 120
DB 57 VALAATATHTLIESERCYSGLNVALASNLYSERSASPSPSERVALILEGLINLEUASN 76
OY 121 CCCACAGCAGACCATTAATTATTCAGGGACTTCAGGCTTTGAGAGAGCAGGTTTCAG 180
DB 77 PROAENATRGILTHILIERYRHEATGASPHETATGPOLYUYSASPERATGPHGGLN 96
OY 181 TTGCTGAATTTTTTACGAGTACGAGTCAAGATATCATTTGACAAAGCTCTCAATTTCTGAT 240
DB 97 LEULASNPHESERSERISERCIULEULYSVALSERLEUTHASVALISERLIESERASP 116
OY 241 GAGGAGAGTACTTTTGGCAGCTCTATACCGATCCCCCAGAGAAAGTTACACCCAGATC 300
DB 117 GUGLYATGTYRPHECYSGLNLEUYRTHRASPROGLNGLISERTYRTHRTHTLIE 136
OY 301 ACAGTCCTGCTCCACAGCATGATCTGATGATGATATCCAGAAAGACACTGGGGTGA 360
DB 137 THRVALLEUVALIPROPRATRGASNLEUMETLIEASPILEGINLYSAPHTHALAVALIGLU 156
OY 361 GGTGAGGAGATTGAAGTCAACTGCACTGCTATGGCCAGCAGCCAGCATATCAGG 420
DB 157 GYGLUGLUILIEGLIVVALASNCSYTHRALAMEULASERLYSPROALATHRTHTLIEATG 176
OY 421 TCGTTCAAAGGGAACACAGAGCTAAAGCAATGAGAGTGGAGAGTGGTCAGCATG 480
DB 177 TRPHELYSGLYASNTHRTIULEULYSGLYSSERGLIVAGLUILWTRPERSAPMET 196
OY 481 TACACTGTGACAGTACGATGATGTCGAGAGTGCACAAAGAGAGAGAGGCTGGCCAGTG 540
DB 197 TYRTHRVALLTHSERCIULEUMETLEULYSVALHISLYSGLIASPSGLYVALIPROVAL 216
OY 541 ATTCGCCAGGTGAGAGACCTGCGGTCACTGGAAACCTGCAGAACCCAGCGGATATCAGAA 600
DB 217 IIECYSGLINVALIGLIUHLISPROALAVALLTHRGLYASNLEUGLINTHRCGLNATRGYRLEAGLU 236
OY 601 GTACAGTATTAACGCTCAAGTGCACATTCAGATGACTTATCCCTCTACAAGGTTAAACCCGG 660
DB 237 VALGINTYLYSPROGLINVALHISLIEGLINMETHTYRPROLEUINDIYLEUTHRTATG 256
OY 661 GAAGGGAGCCCTTGAGTAAATGATGTGAAGCATCGGAGAGCCCGAGGCTGTGATGATGA 720
DB 257 GUGLYASPSALIEUGLNUETHRCYSGLIUALAILEGLYLYSPROGLINPROVALIMETVAL 276

OY 721 ACTTGGGTAGAGTGTGATGTAATGCTTCAACAGCCCGTACTGTCTGGCCCAACTTG 780
DB 277 THRTPRVALARGVALASPSAPGUMETPROGLNHISALAVALLIENUSERCYIPROASNLEU 296
OY 781 TTCATCAATTAACCTTAACAAACAGATATGATGATACCGGCTGACAGTCAACATTA 840
DB 297 PHEILEASNASNLEUASNLYSTHRASPSANGLYTHYTRARGYSGLUASERASNTLIE 316
OY 841 GTGGGGAAGCTCAGCTGCGATATATGCTGTATGTATAGATCCCCCAACATATCCCT 900
DB 317 VALGILYALALEHISERISPRYRMEULEUYRVALTYTRASPROTORHTHTHTLIEPRO 336
OY 901 CCTCCCAACAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 960
DB 337 PROPTHT 356
OY 961 ACAGATTCGCCGAGCAGCATGAAGAGGCTGATCAGGCGAGTGTGATAT 1008
DB 357 THRASPSERARGALAGLYGLUGLYSERLIEAVGALAVASPHLS 372

RESULT 4
US-09-866-028-61

Sequence 61, Application US/09866028
Patent No. US20020058309A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548PICI

CURRENT APPLICATION NUMBER: US/09/866,028
CURRENT FILING DATE: 2001-05-25
Prior application data removed - consult PALM or file wrapper

NUMBER OF SEQ ID NOS: 120

SEQ ID NO 61

LENGTH: 440

TYPE: PRT

ORGANISM: Homo Sapien

US-09-866-028-61

Alignment Scores:

Pred. No.:	7,12e-116	Length:	440
Score:	1761.00	Matches:	336
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	97.78%	Indels:	0
DB:	10	Gaps:	0

US-09-778-187b-1_copy_130_1137 (1-1008) x US-09-866-028-61 (1-440)

OY 1 ATCCCCAGAGTGATGGCGAGATCTGTTTACGAAAGAGCTGACATGATCGAGGAGAG 60
DB 37 ILEPOTHRGLYASPOLYGLNASNLEUPHERNLYSASPVALTHRVALLIEGLUGLYGLU 56
OY 61 GTTGGCAGCATCATGTTGCCAAGTCAATTAAGAGTACAGCTGTGTGATTGACTGATGAAT 120
DB 57 VALAATATHTLIESERCYSGLNVALASNLYSERSASPSPSERVALILEGLINLEUASN 76
OY 121 CCCACAGCAGACCATTAATTATTCAGGGACTTCAGGCTTTGAGAGAGCAGGTTTCAG 180

Db 77 pccasnarqglnthrllyrphearqsphearproleuylsaspserrargphegln 96
Qy 181 TTGCTGAATTTTCTACAGTAACCTAAAGTATCATGACAAACGCTCAATTCGAT 240
Db 97 leuleuasnhesersersergluleuylvalserleuthrasnvalserlleaserasp 116
Qy 241 GAAGGAAGATACCTTTGCGACGCTCTATACGATCCCCACAGAAAGTTACACCACCATC 300
Db 117 GlUGlyrgrlyrphesysglnleuylrThrasproproglnglnuserlyrThrThrThle 136
Qy 301 ACAGTCTGCTCCACACGTAATCTGATGATCATGATCCAGAAAGCACTGGCGTGGAA 360
Db 137 ThrValleuvalProproAargasnleuemetleasplleglnlysaasprhlalavalglu 156
Qy 361 GGTGAGAGATTTGAAGTCACTGCATGCTATGAGCCAGCAAGCCAGCCAGCATATAGG 420
Db 157 GlYglnglnlulegluvalancysThrAlamethylaserlysproalathrThlearg 176
Qy 421 TGCTTCAAGGGAACACAGAGCTAAAGCAATCGAGGTGGAAGAGTGCAGACATG 480
Db 177 TrpPheylsglyasnThrgluleuylsglylsersgluvalglnglnutrpseraspmet 196
Qy 481 TACAGTGCACGATCGATGCTGAAGTGCAGACAGAGACATGGGGTCCCATG 540
Db 197 TyThrValThrSerGlnleuemetleuylvalhlslysglnuaspaglyvalProval 216
Qy 541 ATCTGCAGGTGAGACACCTGCGGTCTACGTGAAACCTGAGAACCCGCTATCTAGAA 600
Db 217 llecysglnvalgluhnsprohlaivalThrGlyasnleuGlnThrGlnlglYrleuGln 236
Qy 601 GTACAGTATAAGCTCAAGTGCACATTCAGATGATTCCTCTCAAGGCTTAACCCGG 660
Db 237 ValGlnlyrlysproglnvalhlsllleglnmetThrlyrProleuglnlyleuThrarg 256
Qy 661 GAAGGGAGCGGCTGAGTAACATGCAAGCCATCGGGAAGCCCGGCTGTGATGCTA 720
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Db 277 ThrTrpValargValaspaspglumetproglnhlsAlavalleuSerGlyProasIleu 296
Qy 781 TTGATCATATACCTAAACAAACAGATATAGTACATACCGCTGTGAAGCTTCAACATA 840
Db 297 PheIleasnlnleuasnlysrThraspsnnglyThrlyrargcysgluAlaserAsnle 316
Qy 841 GTGGGGAACCTGACGCTGATATGCTGATGATGATGATGATGATGATGATGATGAT 900
Db 317 ValGlylyslahlsaserasprlyrMetleuylrvallyrAspProproThrThlepro 336
Qy 901 CCTCCACAACAACAACACACACACACACACACACACACACACATCTTACATCATC 960
Db 337 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr 356
Qy 961 ACAGATCCCGAGCAGGTGAAGAGCTGCATGAGGCGACATGATCAT 1008
Db 357 ThrAspSerArgAlaglyglnglnlyserlleargAlavalasphns 372

APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tomas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1c1
CURRENT APPLICATION NUMBER: US/09/944,449
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565

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: PRIOR FILING DATE: February 11, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: February 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/05841
: PRIOR FILING DATE: March 2, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/08439
: PRIOR FILING DATE: March 30, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/14042
: PRIOR FILING DATE: May 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/20710
: PRIOR FILING DATE: July 28, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/32678
: PRIOR FILING DATE: December 1, 2000
: PRIOR APPLICATION NUMBER: PCT/US01/06520
: PRIOR FILING DATE: February 28, 2001
: NUMBER OF SEQ ID NOS: 120
: SEQ ID NO: 61
: LENGTH: 440
: TYPE: PRT
: ORGANISM: Homo Sapien
US-09-944-449-61

Alignment Scores:
Pred. No.: 7,12e-116 Length: 440
Score: 1761.00 Matches: 336
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 97.78% Indels: 0
DB: 10 Gaps: 0

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DB 117 GLuGlyArgTyrrPheCysGlnLeuTyrrThAspProGlnGlnSerTyrrThrThrIle 136
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RESULT 6
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: Sequence 61, Application US/09944457
: Patent No. US20020110859A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Botstein, David
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gerltsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Gurney, Austin
: APPLICANT: Hillan, Kenneth
: APPLICANT: Kijavlin, Ivar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tumas, Daniel
: APPLICANT: Wood, William
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE REFERENCE: P2548P1C1
: CURRENT APPLICATION NUMBER: US/09/944,457
: CURRENT FILING DATE: 2001-09-26
: PRIOR APPLICATION NUMBER: 09/866,028
: PRIOR FILING DATE: 2001-05-25
: PRIOR APPLICATION NUMBER: 60/067,411
: PRIOR FILING DATE: December 3, 1997
: PRIOR APPLICATION NUMBER: 60/069,334
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,335
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,278
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: PRIOR APPLICATION NUMBER: 60/069,425
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: PRIOR FILING DATE: December 16, 1997
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: PRIOR APPLICATION NUMBER: 60/069,702
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,870
: PRIOR FILING DATE: December 17, 1997
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;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074, 086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074, 092
;; PRIOR FILING DATE: February 9, 1998
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;; PRIOR FILING DATE: February 25, 1998
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;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113, 296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146, 222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216, 021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218, 517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254, 311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 61
;; LENGTH: 440
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-457-61

Alignment Scores:

Pred. No.: 7, 12e-116 Length: 440
Score: 1761.00 Matches: 336
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 97.78% Indels: 0
DB: 10 Gaps: 0

US-09-778-187b-1_copy_130_1137 (1-1008) x US-09-944-457-61 (1-440)

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Db 357 ThrAspSerArgAlaGlyGlnGlnGlySerLIEArgAlaValAspHis 372
RESULT 7
US-09-944-862-61
; Sequence 61, Application US/09944862
; Patent No. US2002015145A1
; GENERAL INFORMATION:

APPLICANT: Baker, Kevin
APPLICANT: Batstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Flvaroff, Ellen
APPLICANT: Gerltsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Klyavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2348P1C1
CURRENT APPLICATION NUMBER: US/09/944,862
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
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PRIOR FILING DATE: February 9, 1998
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PRIOR FILING DATE: February 25, 1998
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PRIOR FILING DATE: September 16, 1998
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PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999

PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020115145A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020115145A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
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PRIOR FILING DATE: March 30, 2000
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PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Saplen
US-09-944-862-61
Alignment Scores:
Pred. No.: 7,12e-116 Length: 440
Score: 1761.00 Matches: 336
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 97.78% Indels: 0
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US-09-945-587-61
; Sequence 61, Application US/09/945587
; Patent No. US20020127643A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Bolstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Geriltsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Goddard, Paul
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavlin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945, 587
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866, 028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067, 411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069, 334
; PRIOR FILING DATE: December 11, 1997
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; PRIOR APPLICATION NUMBER: 60/069, 425

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; PRIOR APPLICATION NUMBER: 60/070, 440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074, 086
; PRIOR FILING DATE: February 9, 1998
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; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075, 945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112, 850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113, 296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146, 222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216, 021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218, 517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254, 311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/065520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Saplen
US-09-945-587-61

Alignment Scores:


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1998 PRIOR FILING DATE: December 16, 1998
1999 PRIOR APPLICATION NUMBER: 09/218,517
1998 PRIOR FILING DATE: December 22, 1998
1999 PRIOR APPLICATION NUMBER: 09/254,311
1998 PRIOR FILING DATE: March 3, 1999
1999 PRIOR APPLICATION NUMBER: PCT/US99/12252
1998 PRIOR FILING DATE: June 22, 1999
1999 PRIOR APPLICATION NUMBER: PCT/US99/21090
1998 PRIOR FILING DATE: September 15, 1999
1999 PRIOR APPLICATION NUMBER: PCT/US99/28409
1998 PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
1999 PRIOR APPLICATION NUMBER: PCT/US99/28313
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1999 PRIOR APPLICATION NUMBER: PCT/US99/28301
1998 PRIOR FILING DATE: December1, 1999
1999 PRIOR APPLICATION NUMBER: PCT/US99/30095
1998 PRIOR FILING DATE: December 16, 1999
1999 PRIOR APPLICATION NUMBER: PCT/US00/00365
1998 PRIOR FILING DATE: February 11, 2000
1999 PRIOR APPLICATION NUMBER: PCT/US00/00414
1998 PRIOR FILING DATE: February 22, 2000
1999 PRIOR APPLICATION NUMBER: PCT/US00/00541
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1999 PRIOR APPLICATION NUMBER: PCT/US00/14042
1998 PRIOR FILING DATE: May 22, 2000
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1998 PRIOR FILING DATE: July 28, 2000
1999 PRIOR APPLICATION NUMBER: PCT/US00/32678
1998 PRIOR FILING DATE: December 1, 2000
1999 PRIOR APPLICATION NUMBER: PCT/US01/006520
1998 PRIOR FILING DATE: February 28, 2001
1999 NUMBER OF SEQ ID NOS: 120
1998 SEQ ID NO 61
1999 LENGTH: 440
1998 TYPE: PRT
1999 ORGANISM: Homo Sapien
1998 OS-09-945-015-61

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Alignment Scores:	
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Score:	1761.00
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Best Local Similarity:	100.00%
Query Match:	97.78%
DB:	10
Length:	440
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Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

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QY	61	GTTCCGACCAATCASTGCCAAGTCAAATAAAGATGACACCTCTGGATTACAGTCAAT	120
Db	57	ValAlaThrIleSerCysGlnValAsnIlySerIaspServalIIegInIleuLeuAsn	76
QY	121	CCCAACAGCGACACATTATTTTCAGGAGCTTCAGGCTTTGGAAGACAGACAGTTTCAG	180
Db	77	ProAsnArgGlnThrIleIyTyPheArgAspPheArgProIeuIySasPserArgPheGln	96
QY	181	TTGCTGAATTTTTTTCAGACGTGAAGCTAAAGTATCATTTGACAAACGTCTCAATTTCTGAT	240
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QY	241	GAAAGAAATATCTTTTGCCACGCTTATATACGATCCCCACACAGGAAAGTTACACCACATC	300
Db	117	GlnIlyArgTyPheCysGlnIleuTyIThrAspProProGlnIuSerTyIThrThrIle	136
QY	301	ACAATCGCTGGCCACACACAGAAATCATGATATGCCAAGAAAGACACTGCGGTGAA	360
Db	137	ThrValIeuValProProArgAsnIleuMetIleAspIIegInIySasPrrIhAlaValGln	156

OY	361	GGTAGGGAGATTGAAGTAACTGCACTGCTTTGGCCAGCAAGCCAGCCAGACTATAGG	420
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OY	421	TGGTTCAAGGGAACACACAGACTAAAGCAATCGGAGGTGAAGAGTGGTCAGACATG	480
Db	177	TrpPheLysGLYAsnThrGluLeuLysGLYSerGluValGluGluTrpSerAspMet	196
OY	481	TACACTGTGACACAGCAGCTATGCTGTGAAGGTGCACAAGGGAGCGATGGGGTCCCGTG	540
Db	197	TyrThrValThrSerGluMetLeuLysValHisLysGluSpsAspGlyValProVal	216
OY	541	ATTGCCAGGTGGAGACACCCCTGGCGGTCACTGGAAACCTGCAGACCCAGCGGTATAGAA	600
Db	217	IleCysGlnValGluHisProAlaValThrGluSpsLeuGlnThrGlnArgTyrLeuGlu	236
OY	601	GTAACGTTAAGCCCTCAAGTGCACATTCAGATGACTTATGCTGTACAAGGCTTAACCCGG	660
Db	237	ValGlnTyrLysProGlnValHisIleLeuMetThrTyrProLeuGlnGlyLeuThrArg	256
OY	661	GAAGGGAGCGGCTTGAGTTAACTGTGAACCCATCGGGAAAGCCCAAGCCGCTGTGATGTA	720
Db	257	GluGlyAspAlaLeuGluLeuThrCysGluValAlaIleGlyLysProGlnProValMetVal	276
OY	721	ACTGGGGTGAAGTCCGATGATGAATAAGCTTCACAGCCCGTACTGTCGTGGGCCCAACTGG	780
Db	277	ThrTrpValArgValAspAspGluMetProGlnHisAlaValLeuSerGlyProAsnLeu	296
OY	781	TTTCATCAATTAACCTCAAAACAACACAGATAATGGTGCATACCGCTGTGAAGCTTCAACATA	840
Db	297	PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrArgCysGluAlaSerAsnIle	316
OY	841	GTGGGGAAGCTCACTCGGATTAATATGCTGTATGTATACAGATCCCCCACAACATACCTCT	900
Db	317	ValGlyLysAlaHisSerAspTyrMetLeuLysValTyrAspProPheThrIlePro	336
OY	901	CCCTCCACAAACAACACCAGCACCCACACACACACACACACACACATCTTACATCATC	960
Db	337	ProPheThrThrThrThrThrThrThrThrThrThrThrIleLeuThrIleIle	356
OY	961	ACAGATTCCGACGACGATGAAGAAGGCTCGATCAGGGCAGTGGATCAT	1008
Db	357	ThrAspSerArgAlaGlyGluGlnGlySerIleArgValAlaValAspHis	372
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RS-09-944-396-61			

Sequence 61, Application US/09944396
 Patent No. US20020132981A1
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin
 APPLICANT: Bolstein, David
 APPLICANT: Eaton, Dan
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Gerritsen, Mary
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul
 APPLICANT: Grimaldi, Christopher
 APPLICANT: Gurney, Austin
 APPLICANT: Hillan, Kenneth
 APPLICANT: Kljavin, Ivar
 APPLICANT: Napier, Mary
 APPLICANT: Roy, Margaret
 APPLICANT: Tomas, Daniel
 APPLICANT: Wood, William
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 TITLE OF INVENTION: ACIDS ENCODING THE SAME
 FILE REFERENCE: P2548P1c1
 CURRENT APPLICATION NUMBER: US/09/944,396
 CURRENT FILING DATE: 2001-09-26
 PRIOR APPLICATION NUMBER: 09/866,028
 PRIOR FILING DATE: 2001-05-25

1	PRIOR APPLICATION NUMBER: 60/067,411
2	PRIOR FILING DATE: December 3, 1997
3	PRIOR APPLICATION NUMBER: 60/069,334
4	PRIOR FILING DATE: December 11, 1997
5	PRIOR APPLICATION NUMBER: 60/069,335
6	PRIOR FILING DATE: December 11, 1997
7	PRIOR APPLICATION NUMBER: 60/069,278
8	PRIOR FILING DATE: December 11, 1997
9	PRIOR APPLICATION NUMBER: 60/069,425
10	PRIOR FILING DATE: December 12, 1997
11	PRIOR APPLICATION NUMBER: 60/069,696
12	PRIOR FILING DATE: December 16, 1997
13	PRIOR APPLICATION NUMBER: 60/069,694
14	PRIOR FILING DATE: December 16, 1997
15	PRIOR APPLICATION NUMBER: 60/069,702
16	PRIOR FILING DATE: December 16, 1997
17	PRIOR APPLICATION NUMBER: 60/069,870
18	PRIOR FILING DATE: December 17, 1997
19	PRIOR APPLICATION NUMBER: 60/069,873
20	PRIOR FILING DATE: December 17, 1997
21	PRIOR APPLICATION NUMBER: 60/068,017
22	PRIOR FILING DATE: December 18, 1997
23	PRIOR APPLICATION NUMBER: 60/070,440
24	PRIOR FILING DATE: January 5, 1998
25	PRIOR APPLICATION NUMBER: 60/074,086
26	PRIOR FILING DATE: February 9, 1998
27	PRIOR APPLICATION NUMBER: 60/074,092
28	PRIOR FILING DATE: February 9, 1998
29	PRIOR APPLICATION NUMBER: 60/075,945
30	PRIOR FILING DATE: February 25, 1998
31	PRIOR APPLICATION NUMBER: 60/112,850
32	PRIOR FILING DATE: December 16, 1998
33	PRIOR APPLICATION NUMBER: 60/113,296
34	PRIOR FILING DATE: December 22, 1998
35	PRIOR APPLICATION NUMBER: 60/146,222
36	PRIOR FILING DATE: July 28, 1999
37	PRIOR APPLICATION NUMBER: PCT/US98/19330
38	PRIOR FILING DATE: September 16, 1998
39	PRIOR APPLICATION NUMBER: PCT/US98/25108
40	PRIOR FILING DATE: December 1, 1998
41	PRIOR APPLICATION NUMBER: 09/216,021
42	PRIOR FILING DATE: December 16, 1998
43	PRIOR APPLICATION NUMBER: 09/218,517
44	PRIOR FILING DATE: December 22, 1998
45	PRIOR APPLICATION NUMBER: 09/254,311
46	PRIOR FILING DATE: March 3, 1999
47	PRIOR APPLICATION NUMBER: PCT/US99/12252
48	PRIOR FILING DATE: June 22, 1999
49	PRIOR APPLICATION NUMBER: PCT/US99/21090
50	PRIOR FILING DATE: September 15, 1999
51	PRIOR APPLICATION NUMBER: PCT/US99/28409
52	PRIOR FILING DATE: No. US20020133981A1ember 30, 1999
53	PRIOR APPLICATION NUMBER: PCT/US99/28301
54	PRIOR FILING DATE: December 1, 1999
55	PRIOR APPLICATION NUMBER: PCT/US99/30095
56	PRIOR FILING DATE: December 16, 1999
57	PRIOR APPLICATION NUMBER: PCT/US00/03565
58	PRIOR FILING DATE: February 11, 2000
59	PRIOR APPLICATION NUMBER: PCT/US00/04414
60	PRIOR FILING DATE: February 22, 2000
61	PRIOR APPLICATION NUMBER: PCT/US00/05841
62	PRIOR FILING DATE: March 2, 2000
63	PRIOR APPLICATION NUMBER: PCT/US00/08439
64	PRIOR FILING DATE: March 30, 2000
65	PRIOR APPLICATION NUMBER: PCT/US00/14042
66	PRIOR FILING DATE: May 22, 2000
67	PRIOR APPLICATION NUMBER: PCT/US00/20710
68	PRIOR FILING DATE: July 28, 2000
69	PRIOR APPLICATION NUMBER: PCT/US00/32678
70	PRIOR FILING DATE: December 1, 2000
71	PRIOR APPLICATION NUMBER: PCT/US01/06520

				PRIOR FILING DATE: February 28, 2001			
				NUMBER OF SEQ ID NOS: 120			
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; LENGTH: 440							
; TYPE: PRT							
; ORGANISM: Homo Sapien							
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Score:				1761.00	Matches:	336	
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Best Local Similarity:				100.00%	Mismatches:	0	
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QY	61	GTTGGACCAATCAGTGTGGCAAGTCATAAGAGTGAGCGCTGTGGATTCACTCAAT	120				
DB	57	VALAIAIIRILIESECYSGILNAlAsnLysSerAspSerValILEGLNLeuAsn	76				
QY	121	CCCAACAGCAGACCAATTTATTTTCAGGAGCTTCAGGCGCTTTGAAGAGCAGCAGGTTTCAG	180				
DB	77	PROASNARGINLTHRIETYPHeArgAspHeArgProLeuLysAspSerArgPheGLN	96				
QY	181	TTGTGGAATTTTTCTAGCAGGTGAACCTCAAGTATTCATGACAAACGTCCTCAATTTCTGAT	240				
DB	97	LEULASNPHESESRSESRGCIUEULYSVALSERLEUTRPNASVALSERILIESEFASP	116				
QY	241	GAGGAAAGATCTTTGGCAGCTGTATACGATCCCGCCACAGGAAAGTTACACCAACATC	300				
DB	117	GLUGLYATGYTPHeCYSGILNLeuTYrThrAspProProGlnGlnJuseTYrThrThILE	136				
QY	301	ACAGTCCTGGTCCSCACACAGTAACTGATGATCGATATCCAGAAAGACACTGCGGTGGAA	360				
DB	137	THIRVALLEUVALPRIORIARGASnLeuMetILEAspILEGILNYSAspThrAlaValGLU	156				
QY	361	GGTGAAGAGATTGAAGTCACTGCACCTGCTATGGCCACAAACCCAGCCAGCATATCAGG	420				
DB	157	GLYGLUGLILIEGLNVALAsnCYSThrAlaMetAlaSERLSPROVALTHRTThILEArg	176				
QY	421	TGGTTCAAAAGGACACACAGAGCTAAAGCGCAATTCGGAGGTGGAAAGAGTGGTCAGACATG	480				
DB	177	TPRPhELYSGLYAspThrGLNLeuLYSGLYSSERGILNValIGLGLUTTPSERLAspMet	196				
QY	481	TACACTGGACCAAGTCACAGCTGATGCTGAAGGGCCAAAGAGAGAGATGGGTCGCCAGTG	540				
DB	197	TYTRIVALTHIRSEGLNLeuMetLEULYSVALINLSYSGILNAspAspLYVALProVAL	216				
QY	541	ATCTCCAGAGTGGACACACCCCTGCGGTCACTGGAAACCTGCAGACCCAGCCGTTATCTAGAA	600				
DB	217	ILCYSGILNValIGLNLAspAlaValThrgLYSILNLeuGlnThrgILNArgTYLeuGLN	236				
QY	601	GTAACGATTAAGCCCTCAAGTGCACACTTATAGATGACTTATCTCTTACAAGGCTTAACCCGG	660				
DB	237	VALGILNLYSPROGILNValINLSILEGILMetThTYrProLeuGlnGLYLeuThThArg	256				
QY	661	GAAAGGAGCGCCCTTGAGTTAACATGTGAAGCGATCGGGAAGCCCGACCGCTGATGGTA	720				
DB	257	GLUGLYAspRAlaLeuGLNLeuThrcYSGLNAlaILEGLYSPROGILNProVALMetVAL	276				
QY	721	ACCTGGGTGAGAGTGCATGATGAATAATGCCCTCAACACGCCGTACTGTGTGGCCCAACCTG	780				
DB	277	THIRTPVALARGVALAspAspRPUWETPRGILNLSIALValLEUSeRGLYProAsnLeu	296				
QY	781	TTTCAATCAATTAACCTTAACAAAACAGATTAATGGTACATCCGCTGTGAAGCTTCAAAACATA	840				
DB	297	PHILIEASNPASnLeuAsnLysThrAspAsnGLYThTYrArgCYSGILNAlaSERLAsnILE	316				

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Db 337 ProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIle 356
QY 961 ACAGATCCGAGCAGGAGGAAGGCTCGATCAGGAGGATCATC 1008
Db 357 ThrAspSerArgAlaGlyGluGlySerIleArgAlaValAspHis 372
RESULT 11
US-09-944-097-61
Sequence 61, Application US/09944097
Patent No. US20020133675A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Batton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerltsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2348P1C1
CURRENT APPLICATION NUMBER: US/09/944, 097
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/069, 334
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PRIOR APPLICATION NUMBER: 60/069, 278
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PRIOR FILING DATE: February 9, 1998
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PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
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PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218, 517
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PRIOR APPLICATION NUMBER: 09/254, 311
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PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
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PRIOR FILING DATE: No. US20020133675A1 member 30, 1999
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PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 26, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-097-61
Alignment Scores:
Pred. No.: 7.12e-116 Length: 440
Score: 1761.00 Matches: 336
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 97.78% Mismatches: 0
Query Match: 97.78% Indels: 0
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: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/074,092
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/075,945
: PRIOR FILING DATE: February 25, 1998
: PRIOR APPLICATION NUMBER: 60/112,850
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 60/113,296
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 60/146,222
: PRIOR FILING DATE: July 28, 1999
: PRIOR APPLICATION NUMBER: PCT/US98/19330
: PRIOR FILING DATE: September 16, 1998
: PRIOR APPLICATION NUMBER: PCT/US98/25108
: PRIOR FILING DATE: December 1, 1998
: PRIOR APPLICATION NUMBER: 09/216,021
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 09/218,517
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 09/254,311
: PRIOR FILING DATE: March 3, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/12252
: PRIOR FILING DATE: June 22, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: September 15, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28409
: PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28313
: PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28301
: PRIOR FILING DATE: December 1, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/30095
: PRIOR FILING DATE: December 16, 1999
: PRIOR APPLICATION NUMBER: PCT/US00/03565
: PRIOR FILING DATE: February 11, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: February 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/05841
: PRIOR FILING DATE: March 2, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/08439
: PRIOR FILING DATE: March 30, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/14042
: PRIOR FILING DATE: May 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/20710
: PRIOR FILING DATE: July 28, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/32678
: PRIOR FILING DATE: December 1, 2000
: PRIOR APPLICATION NUMBER: PCT/US01/06520
: PRIOR FILING DATE: February 28, 2001
: NUMBER OF SEQ ID NOS: 120
: SEQ ID NO 61
: LENGTH: 440
: TYPE: PRT
: ORGANISM: Homo Sapien
US-09-943-762-61

Alignment Scores:
Pred. No.: 7,12e-116 Length: 440
Score: 1761.00 Matches: 336
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 97.78% Indels: 0
DB: 10 Gaps: 0

US-09-778-187b-1_copy_130_1137 (1-1008) x US-09-943-762-61 (1-440)

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RESULT 14
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: Sequence 61, Application US/09944654
: Patent No. US20020142959A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Botschein, David
: APPLICANT: Baton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Flivanoff, Ellen
: APPLICANT: Gerlitsen, Mary
: APPLICANT: Goddard, Audrey
```


APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,654
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
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PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020142959A1member 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020142959A1member 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095

PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-654-61
Alignment Scores:
Pred. No.: 7.12e-116 Length: 440
Score: 1761.00 Matches: 336
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 97.78% Indels: 0
Gaps: 0
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OY 961 ACAGATTCCCGACGAGTCGAACAGCGCTGATCAGGCGAGTGATCAT 1008
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RESULT 15

US-09-943-851A-61
Sequence 61, Application US/09943851A
Patent No. US20020150976A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin
APPLICANT: Boetstein, David
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gertlesen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillman, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/943,851A
CURRENT FILING DATE: 2001-08-30
PRIOR APPLICATION NUMBER: US/09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
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PRIOR APPLICATION NUMBER: 60/070,440
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PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
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PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
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PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020150976A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020150976A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
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PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Saplen
US-09-943-851A-61

Alignment Scores:
Pred. No.: 7.12e-116
Score: 1761.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 97.78%
DB: 10
Matches: 440
Conservative: 336
Mismatches: 0
Indels: 0
Gaps: 0

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Job time: 20 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: November 20, 2002, 07:34:43 ; Search time 12.5 Seconds
(without alignments)
790.888 Million cell updates/sec

Title: US-09-778-187B-2_COPY_39_374

Perfect score: 1761

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	623.5	35.4	421	US-08-660-531-1	Sequence 1, Appl
3	623.5	35.4	444	US-08-659-984A-5	Sequence 5, Appl
4	623.5	35.4	444	US-08-660-531-5	Sequence 5, Appl
5	232	13.2	393	US-08-429-742-2	Sequence 2, Appl
6	212.5	12.1	458	US-09-435-956A-1	Sequence 4, Appl
7	206.5	11.7	388	US-08-429-742-4	Sequence 1, Appl
8	206	11.7	642	US-08-217-299-1	Sequence 36, Appl
9	206	11.7	698	US-08-602-723-36	Sequence 17, Appl
10	206	11.7	734	US-08-389-459A-17	Sequence 18, Appl
11	206	11.7	734	US-08-987-867A-17	Sequence 17, Appl
12	194	11.0	1651	US-09-540-245A-18	Sequence 15, Appl
13	193.5	11.0	1395	US-09-540-245A-15	Sequence 2, Appl
14	192.5	10.9	1241	US-09-040-774-2	Sequence 2, Appl
15	187.5	10.6	583	US-08-432-016-2	Sequence 46, Appl
16	187.5	10.6	583	US-08-684-594-2	Sequence 2, Appl
17	185.5	10.5	308	US-08-414-657D-46	Sequence 41, Appl
18	185.5	10.5	325	US-08-414-657D-2	Sequence 41, Appl
19	185.5	10.5	325	US-08-414-657D-41	Sequence 41, Appl
20	185.5	10.5	325	US-09-135-080-2	Sequence 48, Appl
21	185	10.5	304	US-08-414-657D-48	Sequence 44, Appl
22	183.5	10.4	315	US-08-414-657D-47	Sequence 42, Appl
23	183.5	10.4	338	US-08-414-657D-42	Sequence 43, Appl
24	183.5	10.4	338	US-08-414-657D-43	Sequence 49, Appl
25	183.5	10.4	338	US-09-135-080-4	Sequence 49, Appl
26	183.5	10.4	338	US-08-414-657D-49	Sequence 49, Appl
27	183	10.4	287	US-08-414-657D-49	Sequence 49, Appl

28	183	10.4	310	2	US-08-414-657D-45	Sequence 45, Appl
29	182.5	10.4	477	2	US-08-432-016-3	Sequence 3, Appl
30	182.5	10.4	477	2	US-08-684-594-3	Sequence 3, Appl
31	179.5	10.2	1297	4	US-09-540-245A-17	Sequence 17, Appl
32	179	10.2	1447	4	US-09-041-886-25	Sequence 25, Appl
33	179	10.2	1447	5	PCT-US94-05277-2	Sequence 2, Appl
34	178	10.1	869	1	US-08-374-834-16	Sequence 16, Appl
35	178	10.1	869	2	US-08-644-271-29	Sequence 29, Appl
36	178	10.1	869	4	US-09-077-955-33	Sequence 33, Appl
37	177.5	10.1	338	2	US-08-414-657D-60	Sequence 60, Appl
38	177.5	10.1	338	4	US-09-135-080-8	Sequence 8, Appl
39	176.5	10.0	478	5	PCT-US95-08493-15	Sequence 15, Appl
40	176.5	10.0	860	5	PCT-US95-08493-19	Sequence 19, Appl
41	176.5	10.0	868	5	PCT-US95-08493-21	Sequence 21, Appl
42	175.5	10.0	408	4	US-09-724-864-62	Sequence 62, Appl
43	174	9.9	607	2	US-08-752-307B-12	Sequence 12, Appl
44	174	9.9	607	4	US-09-707-802-12	Sequence 12, Appl
45	174	9.9	607	4	US-09-991-326-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1
US-08-659-984A-1
; Sequence 1, Application US/08659984A
; Patent No. 5942400
; GENERAL INFORMATION:
; APPLICANT: Anderson, John P.
; APPLICANT: Sinha, Sukanto
; APPLICANT: Jacobson-Croak, Kirsten L.
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
; TITLE OF INVENTION: Inhibition
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/659,984A
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400
; TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-659-984A-1

Query Match 35.4%; Score 623.5; DB 2; Length 421;
Best Local Similarity 39.0%; Pred. No. 11e-46;
Matches 137; Conservative 66; Mismatches 121; Indels 27; Gaps 6;

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 20, 2002, 07:34:43 ; Search time 15 Seconds

(without alignments)
2153.411 Million cell updates/sec

Title: US-09-778-187b-2_COPY_39_374

Perfect score: 1761

Sequence: 1 IPFGDGMFLFKVDVTIEGE.....LTITDSRAGEGSTRVADH 336

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Prod. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	263.5	15.0	5175	2 T20992	hypothetical prote
2	263.5	15.0	5198	2 T43290	hemiscutin precurs
3	248	14.1	407	2 T08732	hypothetical prote
4	243	13.8	725	2 JER099	neural cell adhesi
5	239	13.6	1088	1 IJXLNL	neural cell adhesi
6	227	12.9	4162	2 T42633	connectin/titin -
7	224	12.7	530	2 A53437	poliovirus recepto
8	223.5	12.7	7962	2 J61000	elastic titin - hu
9	223	12.7	725	2 J61000	neural cell adhesi
10	223	12.7	1092	1 JN0635	neural cell adhesi
11	222	12.6	344	2 T36531	neurotrophin - rat
12	222	12.6	467	1 HLMSP3	poliovirus recepto
13	221	12.5	392	2 B44194	poliovirus recepto
14	221	12.5	417	2 A44194	poliovirus recepto
15	221	12.5	538	2 I68093	PRR2 delta - human
16	219	12.4	518	2 JCA024	poliovirus recepto
17	218	12.4	392	1 KWHUPD	poliovirus recepto
18	216	12.4	417	1 RWHUPA	poliovirus recepto
19	216	12.4	478	2 I53960	PRR2 alpha - human
20	214	12.2	4391	2 A38096	plecten precursor
21	213.5	12.1	812	2 B42632	cell adhesion mole
22	213.5	12.1	932	2 A42632	cell adhesion mole
23	210.5	11.0	345	2 S03199	oploid-binding pro
24	210	11.0	1011	2 T13669	neurotrophin - fr
25	209.5	11.9	584	2 I50419	s-glycerin precurs
26	208.5	11.8	345	2 JCA025	oploid-binding cel
27	206	11.7	702	2 A36319	carcinoembryonic a
28	203.5	11.6	765	2 C42632	cell adhesion mole
29	202.5	11.5	345	2 JCI239	oploid-binding pro

30	202.5	11.5	862	2 I49583	differentiation an
31	202.5	11.5	868	2 A46512	CD22 homolog/B lym
32	202	11.5	847	2 JH0371	B-cell adhesion pr
33	202	11.5	1443	2 I50600	neogenin - chicken
34	201.5	11.4	338	2 JCI238	oploid-binding pro
35	200	11.4	1323	2 PNO568	connectin 3B - chl
36	197.5	11.2	3707	2 S18252	heparan sulfate pr
37	195.5	11.1	1091	1 IJCHNL	neural cell adhesi
38	195	11.1	1612	2 T30805	ducl1 protein - mo
39	194	11.0	338	2 JCS519	50K glycoprotein P
40	193	11.0	761	1 IJHUNG	neural cell adhesi
41	193	11.0	1344	2 T14316	rig-1 protein - mo
42	192.5	10.9	1241	2 T37190	neprilin - human
43	191.5	10.9	976	2 T29583	hypothetical prote
44	189.5	10.8	646	2 I38049	cell surface glyco
45	189	10.7	1036	2 S22383	axonin 1 precursor

ALIGNMENTS

RESULT 1	T20992	hypothetical protein F15G9.4a - Caenorhabditis elegans
C:Species: Caenorhabditis elegans		
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 18-Feb-2000		
C:Accession: T20992; T24733		
R:Sulston, J.		
A:Reference number: 219355		
A:Accession: T20992		
A>Status: preliminary; translated from GB/EMBL/DBJ		
A:Molecule type: DNA		
A:Residues: 1-5175 <MTL>		
A:Cross-references: EMBL:247068; PIDN:CAAB87335.1; GSPDB:GN00028; CESP:F15G9.4a		
A:Experimental source: clone F15G9		
R:Kershaw, J.		
A:Reference number: 219929		
A:Accession: T24733		
A>Status: preliminary; translated from GB/EMBL/DBJ		
A:Molecule type: DNA		
A:Residues: 1-5175 <MTL>		
A:Cross-references: EMBL:247070; PIDN:CAAB87344.1; GSPDB:GN00028; CESP:F15G9.4a		
A:Experimental source: clone T09B9		
C:Genetics:		
A:Gene: CESP:F15G9.4a		
A:Map position: X		
A:Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184		
A:Exons: 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 303		
1; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4879/1; 4941/1; 5011/1; 50		
Query Match	15.0%	Score 263.5; DB 2; Length 5175;
Best Local Similarity	24.6%	Pred. No. 6; 2e-10;
Matches	87; Conservative	66; Mismatches 129; Indels 71; Gaps 15;
QY	14 VVIVIEGEVATISCOVKNKSDSVTOLLNPNRQTYFPDFRPL-----KDSRFOLLNFSSSEI 69	
DB	2200 VRAIKGALPKFCPID--DDK-----NFKGQIILRNRYPIDLEADDAITRL---SNDR 2249	
QY	70 KVSILNVSISDEGRFCQLYTDPQESYT--TIVLVPPLNLMIDIOKD--TAVEGEIEVN 127	
DB	2250 RTILNVTENDEGOYSCRVKNADGENSPFKATVIVLPPTIMLDKDKNKTAVERHSVTLS 2309	
QY	128 CRAMSKRPATITRMFG-----NTELKGSKEVERMSMTYVTSQMLKVKR 173	
DB	2310 CPA-TGKPPEDITWFGDEGAHIEINADIIPNGELNG-----NOLKTRIK 2354	
QY	174 EDDGVVICOVEHPAVTGNLQTORYLEVOYKPOVH---IQMTYPLQGLTRREGDALETCE 230	
DB	2355 EGDAGKYTCADNSA--GSVEDVAVNVITTIKRIEDGIPSDYESQ---QNERVVISCP 2408	
QY	231 AIGKPPQVWVWVRVDEMPQHAVL---SGPNLFTNNLNKTDNGTYRCEASNIYKAHS 286	

Db 2409 VYARP-PAKITWMLAKGKPLQSDKFKVTSANGOKLYLFKLEKRETSKTYCIATNAGTDRK 2467
QY 287 DYMLYYVDPPTTIP-----PTTTTTTTTTTTTTTTTTDSRAGE 327
Db 2468 DFKVSMVLAPSFDEPNIVRRITVNSGNPSTLHCPAKGSPPTITWLKGNALIE 2520

RESULT 2
T43290
hemiscentin precursor - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 18-Feb-2000
C:Accession: T43290; T20993; T24734
R:Vogel, B.E.; Hedgecock, E.M.
Submitted to the EMBL Data Library, June 1998
A:Description: Hemiscentin is required for hemidesmosome mediated cell adhesion and germ-
A:Reference number: Z23396
A:Accession: T43290
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-5198 <VOG>
A:Cross-references: EMBL:AF074901; PIDN:AAC26792.1
R:Stulson, J.
Submitted to the EMBL Data Library, December 1994
A:Reference number: Z19355
A:Accession: T20993
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-5198 <WII>
A:Cross-references: EMBL:Z47068; PIDN:CAA87336.1; GSPDB:GN00028; CESP:F15G9.4b
A:Experimental source: clone F15G9
R:Kershaw, J.
Submitted to the EMBL Data Library, December 1994
A:Reference number: Z19929
A:Accession: T24734
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-5198 <W12>
A:Cross-references: EMBL:Z47070; PIDN:CAA87345.1; GSPDB:GN00028; CESP:F15G9.4b
A:Experimental source: clone T0989
C:Genetics:
A:Gene: him-4; F15G9.4b
A:Map position: X
A:Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184/3;
A:Exons: 2512/2; 2593/3; 2699/3; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 3033/1;
A:Exons: 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4902/1; 4964/1; 5034/1; 5100/

Query Match 15.0%; Score 263.5; DB 2; Length 5198;
Best Local Similarity 24.6%; Pred. No. 6.2e-10;
Matches 87; Conservative 66; Mismatches 129; Indels 71; Gaps 15;

QY 14 VYIEGEVATISGQVKNKSDSVIQLNPNQTIYFRDRL-----KDSRQLNFSSEL 69
Db 2200 VAIKAGALPFKCPID--DK-----NFKGQIILWLNQYQIDLEADARITRL--SNDR 2249
QY 70 KSLTNVSIISDEGRFCOLYTPPOESYT-TITVLPNRLMIDIOKD-TAAGEELEVN 127
Db 2250 RLTLVTEWDEQYSCRVKNDAGENSFDEKATVLPPTITMDKKNKRAVHSHVTL 2309
QY 128 CTAMASKPATTTIRFKG-----NTELKGSVEEEDSMYTVTSOLMLKVKR 173
Db 2310 CPA-TGKPEPDITWFKDGEAIIHENIADIIIPNCELNG-----NOLKITRIK 2354
QY 174 EDGCVGVICQVEHAYVGNLQTORELYENQKPPGVH---TQMTYPLQGLTFREGALLETCE 230
Db 2355 EGDAGTYTCADNSA--GSVEQDVNANVITITPKTEKGLPSDESQ---QNERVAVISCP 2408
QY 231 AIGKPPVAVTWVRVDDEMPQHAFL-----SGPMLFTINLNKTDNGTYRCEASNTVGKAHS 286
Db 2409 VYARP-PAKITWMLAKGKPLQSDKFKVTSANGOKLYLFKLEKRETSKTYCIATNAGTDRK 2467
QY 287 DYMLYYVDPPTTIP-----PTTTTTTTTTTTTTTTTTDSRAGE 327

Db 2468 DFKVSMVLAPSFDEPNIVRRITVNSGNPSTLHCPAKGSPPTITWLKGNALIE 2520

RESULT 3
T08732
hypothetical protein DKFP566B0846.1 - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 13-Aug-1999
C:Accession: T08732
R:Ottewill, B.; Obermaier, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
Submitted to the Protein Sequence Database, May 1999
A:Reference number: Z16474
A:Accession: T08732
A:Molecule type: mRNA
A:Residues: 1-407 <OTW>
A:Cross-references: EMBL:AL050071
A:Experimental source: fetal kidney; clone DKFP566B0846
C:Genetics:
A:Note: DKFP566B0846.1

Query Match 14.1%; Score 248; DB 2; Length 407;
Best Local Similarity 27.7%; Pred. No. 3.3e-10;
Matches 77; Conservative 44; Mismatches 115; Indels 42; Gaps 10;

QY 82 GRYFCOLYTP--POESYTTIVLVPPNLMIDIOKDTAVEG--EEIEVNCATAMASKPAT 137
Db 2 GKTYCAVTFPLDQNAQSTVTVLVEFTVSLIK-CPDSDLDGNGENYVAALCIATATCKPVA 60
QY 138 TIRFKGNTELKGSSEVEKSDMY-----TVTSOLMLKVKHEDDGVPTICQVEHAYVGN 192
Db 61 HEDW-EGDL-----GEMESTTTSFPMETATIIISQKLFPTFRFARGRTICVVAHPALEKD 114
QY 193 LQTORELYENQKPPGVHQLQMTYPLQGLTFREGDALDELCEALCKRQPPVWVRVDDEMPQ 252
Db 115 IRTSFLIDIOYLAPEVSYTGIDGMMWEYGRKG--VNLKCNADANPPPKSVWSRLDGGQWPD 172
QY 253 AVLSGPNL-FINNINLNTDNGTYRCEASNTVGKAHSDYMLVYDPP--TTIP----- 301
Db 173 LLSADMTLHVHVLFTFNYSGVYICKYTNLSGQNSDQKVIYISDPPTTITLQPTIQMHPST 232
QY 302 -----PTTTTTTTTTTTTTTTTTDSRAG 326
Db 233 ADIEDLATEPKKLPLPLSTLATIKDPTIATITIASVVG 270

RESULT 4
JEO099
neural cell adhesion molecule 1 - African clawed frog
N:Alternate names: N-CAM 1
C:Species: Xenopus laevis (African clawed frog)
C:Date: 19-May-1998 #sequence_revision 29-May-1998 #text_change 21-Jul-2000
C:Accession: JEO099
R:Rudo, M.; Takayama, E.; Tadokuma, T.; Shiohara, K.
Biochem. Biophys. Res. Commun. 245, 127-133, 1998
A:Title: Molecular cloning of ssd-form neural cell adhesion molecules (N-CAMs) as the
A:Reference number: JEO099; MUID:98204770; PMID:9535795
A:Accession: JEO099
A:Molecule type: mRNA
A:Residues: 1-725 <KUD>
A:Cross-references: DBJ:AB008162; NID:g3116226; PIDN:BAA25931.1; PID:g3116227
A:Experimental source: heart
A:Comment: This protein mediates and regulates various cell-cell interactions through
C:Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; 1
F:413-475/Domain: immunoglobulin homology <IM>
F:512-589/Domain: fibronectin type III repeat homology <3FR>

Query Match 13.8%; Score 243; DB 2; Length 725;
Best Local Similarity 26.5%; Pred. No. 1.5e-09;
Matches 90; Conservative 61; Mismatches 147; Indels 42; Gaps 15;

QY 12 KDVTYIEGEVATISC--QVN--KSDDSVYQLN-----PNKOTITFRDPRPLKDSRFL 61

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 20, 2002, 07:34:42 ; Search time 9 Seconds

(without alignments)
1548.450 Million cell updates/sec

Title: US-09-778-187b-2_COPY_39_374

Perfect score: 1/61
Sequence: 1 IPTDQGNLFTKDYTVIEG.....LTITDSKAGEGSRVAVDH 336

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 112892 seqs, 41476328 residues

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_40 :*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	239	13.6	1088	NCAL_XENLA	P16170 xenopus lae
2	234.5	13.3	515	PVAL_PIG	O99176 sus scrofa
3	227.5	12.9	517	PVAL_HUMAN	O15223 homo sapien
4	224	12.7	530	PVR2_MOUSE	P32507 mus musculu
5	223.5	12.7	837	NCM2_MOUSE	O35136 mus musculu
6	223	12.7	1092	NCAL_XENLA	P36335 xenopus lae
7	222	12.6	344	NTRI_RAT	O62718 rattus norv
8	221	12.5	417	PVR_CERAE	P32506 cercopithe
9	221	12.5	538	PVR2_HUMAN	O92692 homo sapien
10	219	12.4	337	G55A_CHICK	O98892 gallus gall
11	217	12.3	417	PVR_HUMAN	P15151 homo sapien
12	214.5	12.2	837	NCM2_HUMAN	O15394 homo sapien
13	213	12.0	4393	PGBM_HUMAN	P98160 homo sapien
14	210.5	12.0	345	OPCM_BOVIN	P11834 bos taurus
15	210	11.9	1242	OPCM_MOUSE	O94257 mus musculu
16	208.5	11.8	345	OPCM_HUMAN	O14982 homo sapien
17	208	11.8	515	PVAL_MOUSE	O91Kf6 mus musculu
18	208	11.8	1493	NEOL_MOUSE	P93798 mus musculu
19	207	11.8	847	CD22_HUMAN	P20273 homo sapien
20	206	11.7	702	CEAS_HUMAN	P06731 homo sapien
21	203	11.5	1461	NEOL_HUMAN	O92859 homo sapien
22	202.5	11.5	345	OPCM_RAT	P32736 rattus norv
23	202.5	11.5	353	CEPU_CHICK	O90773 gallus gall
24	203.5	11.5	862	CD22_MOUSE	P35329 mus musculu
25	202	11.5	1377	NEOL_RAT	P97603 rattus norv
26	202	11.5	1443	NEOL_CHICK	O90610 gallus gall
27	197.5	11.1	3707	PGBM_MOUSE	O05793 mus musculu
28	195.5	11.1	1091	NCAL_CHICK	P13590 gallus gall
29	195.5	11.1	1234	NPHN_RAT	O91040 rattus norv
30	195	11.1	583	CL66_MOUSE	O61490 mus musculu
31	194	11.0	338	LAMP_CHICK	O98919 gallus gall
32	193	11.0	761	NCAL_HUMAN	P13592 homo sapien
33	193	11.0	848	NCAL_HUMAN	P13591 homo sapien

34	192.5	10.9	1241	1	NPHN_HUMAN	O60500 homo sapien
35	190	10.8	1447	1	DCC_MOUSE	P70211 mus musculu
36	189.5	10.8	646	1	MU18_HUMAN	P43121 homo sapien
37	189	10.7	1036	1	AXOL_CHICK	P26885 gallus gall
38	188.5	10.7	764	1	ICCR_DROME	O08180 drosophila
39	188	10.7	853	1	NCAL_BOVIN	P31836 bos taurus
40	188	10.7	858	1	NCAL_RAT	P13596 rattus norv
41	187.5	10.6	583	1	CL66_HUMAN	O13740 homo sapien
42	187	10.6	588	1	CL66_CHICK	P42292 gallus gall
43	185.5	10.5	338	1	LAMP_HUMAN	O13449 homo sapien
44	183.5	10.4	338	1	LAMP_RAT	O62813 rattus norv
45	182.5	10.4	873	1	FAS2_DROME	P34082 drosophila

ALIGNMENTS

RESULT 1
ID NCAL_XENLA STANDARD: PRT; 1088 AA.
AC P16170;
DT 01-APR-1990 (Rel. 14, Created)
DT 01-APR-1990 (Rel. 14, Last sequence update)
DT 13-JUN-2002 (Rel. 41, Last annotation update)
DE Neutral cell adhesion molecule 1, 180 kDa isoform precursor (N-CAM 180).
GN NCAM1.
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipridae; Pipidae;
OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE-90098871; PubMed-2481269;
RA Kriegl P.A., Sakaguchi D.S., Kintner C.R.;
RT "Primary structure and developmental expression of a large cytoplasmic domain form of Xenopus laevis neural cell adhesion molecule (NCAM).";
RT Nucleic Acids Res. 17:10321-10335(1989).
RL
CC
CC -1- FUNCTION: THIS PROTEIN IS A CELL ADHESION MOLECULE INVOLVED IN NEURON-NEURON ADHESION, NEURITE FASCICULATION, OUTGROWTH OF NEURITES, ETC.
CC
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC
CC -1- ALTERNATIVE PRODUCTS: 2 isoforms: N-CAM 180 (shown here) and N-CAM 140; are produced by alternative splicing.
CC
CC -1- TISSUE SPECIFICITY: EXPRESSED IN NEURON AND IN PRESUMPTIVE NEURAL TISSUE.
CC
CC -1- DEVELOPMENTAL STAGE: THE MRNA ENCODING THIS LD-NCAM IS THE MAJOR TRANSCRIPT PRESENT IN BOTH MATERNAL RNA AND IN THE EMBRYO DURING EARLY NEURAL DEVELOPMENT.
CC
CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
CC
CC -1- SIMILARITY: CONTAINS 5 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC
CC -1- SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LIKE DOMAINS.
CC
CC THIS SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@sib-sib.ch).
CC
CC EMBL: M25696; AAA49909.1; -
CC PIR: S09600; IJXLNL.
CC HSP: P56276; IYKL.
CC InterPro: IPR003961; FN_III.
CC InterPro: IPR003006; IG_MHC.
CC InterPro: IPR003598; IG_C2.
CC Pfam: PF00041; FN3; 2.
CC Pfam: PF00047; IG; 5.
CC SMART: SM00060; FN3; 2.
CC SMART: SM00408; IGC2; 5.

KW Cell adhesion; Glycoprotein; Transmembrane; Repeat; Brain;
KW Immunoglobulin domain; Alternative splicing; Signal.
FT SIGNAL 1 19
FT CHAIN 20 1088
FT DOMAIN 20 705
FT TRANSMEM 706 723
FT DOMAIN 724 1088
FT DOMAIN 134 100
FT DOMAIN 129 133
FT DOMAIN 225 289
FT DOMAIN 316 386
FT DOMAIN 415 480
FT DOMAIN 512 589
FT DOMAIN 618 686
FT DOMAIN 149 153
FT DOMAIN 158 162
FT DISULFID 41 93
FT DISULFID 136 186
FT DISULFID 232 282
FT DISULFID 323 379
FT DISULFID 420 473
FT CARBOHYD 82 82
FT CARBOHYD 219 219
FT CARBOHYD 310 310
FT CARBOHYD 341 341
FT CARBOHYD 417 417
FT CARBOHYD 443 443
FT CARBOHYD 472 472
FT VARSPLIC 804 1049
SQ SEQUENCE 1088 AA; 117778 MW; 6273855B03F3E83 CRC64;

Query Match 13.6%; Score 239; DB 1; Length 1088;
Best Local Similarity 26.2%; Pred. No. 3.4e-10;
Matches 89; Conservative 62; Mismatches 147; Indels 42; Gaps 15;

QY 12 KDVTYVEGAVATISCC---OVNKS---DDSVITQLN---PNKQTYFRDRLPKDSRFOL 61
DB 199 KDIOVIVNPPPTIOAROLRNATNANNAESVYLSCDADGFPDPETISMLKKEPIEDGE-EK 257
QY 62 LNFSSSEKLSTNVSISDGRYFCOLYTPDQESYTTIVLPPRNLMIDIKDPAVEG 121
DB 258 ISNNEQSEKTIHVEKDEAEISC-IANNQGEAEKTIILKAYAKPKITYENKRAVEL 316
QY 122 EIEIVNCTAMASKPATITRM-----FKGNETLKRSSEYEMSDMYTYSQMLRVHKE 174
DB 317 DETITLCEA-SGDPISITWRTAVRNISSEATLGDHIYVKEHIRM---SALTLDIOY 371
QY 175 DDCVPYICQVEHNAVGNLQOTORYLEVQYKPOVHIQMTYPLQGLTREDALELTCAIGK 234
DB 372 TDAGEYFCIASNP-IGVDQAM-YFEVQYAPKIR---GIVVYVYTWEGMVPNTICEVFAH 425
QY 235 POFVATVYVVDDEMPQH-----AVLSGP---NLFTNLNKTNGTYRCFASNIYKAHS 286
DB 426 PR-AATWTRDGLLPSSNSNKIKYSGPTSSSLEVNPPSEDPFGNCAINTIGHERS 484
QY 287 DYMLVYVDPPTTTPPTTTTTLTITLITDSRAK 326
DB 485 EFLIVQADTPSS---PAIRKVEPYSVTMIVFEDPDSTG 521

RESULT 2
PVR1_PIG STANDARD; PRT; 515 AA.
ID PVR1_PIG
AC 09GL76;
DT 16-OCT-2001 (Rel. 40; Created)
DT 16-OCT-2001 (Rel. 40; Last sequence update)
DT 15-JUN-2002 (Rel. 41; Last annotation update)
DE Poliovirus receptor related protein 1 precursor (Herpes virus entry mediator C) (HvC) (Nectin 1).
GN PVR1 OR PVR1 OR HVEC.
OS Sus srofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
ON NCBI_TaxID=9823;
RX [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21176378; PubMed=11277703;
RA Milne R.S.B., Connolly S.A., Krummenacher C., Eisenberg R.J., Cohen G.H.;
RT "Porcine HvC, a member of the highly conserved HvC/nectin 1 family, is a functional alphaherpesvirus receptor."
RL Virology 281:315-328(2001).
CC -1- FUNCTION: PROBABLY INVOLVED IN CELL ADHESION. RECEPTOR FOR ALPHAHERPESVIRUS (HSV-1, HSV-2 AND PSEUDORABIES VIRUS) ENTRY INTO CELLS.
CC -1- SUBUNIT: Interacts with HSV glycoprotein D (gD) (By similarity).
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
CC -1- SIMILARITY: CONTAINS 1 IMMUNOGLOBULIN-LIKE V-TYPE DOMAIN.
CC -1- SIMILARITY: CONTAINS 2 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@sib-sib.ch).
CC -----
DR EMBL; AF308632; AAC30281.1; -
DR HSSP; P06907; INED.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR003598; Ig_C2.
DR InterPro; IPR003600; Ig_Like.
DR InterPro; IPR003596; Ig_V.
DR Pfam; PR00047; Ig_2.
DR SMART; SM00409; Ig_3.
DR SMART; SM00410; Ig_Like; 1.
DR SMART; SM00408; IGC2; 2.
DR SMART; SM00406; IGV; 1.
KW Cell adhesion; Immunoglobulin domain; Receptor; Transmembrane;
KW Repeat; Glycoprotein; Signal.
FT SIGNAL 1 30
FT CHAIN 31 315
FT DOMAIN 31 355
FT TRANSMEM 356 376
FT DOMAIN 377 515
FT DOMAIN 44 131
FT DOMAIN 165 233
FT DOMAIN 262 323
FT DOMAIN 437 443
FT DOMAIN 444 444
FT DISULFID 51 124
FT DISULFID 172 226
FT DISULFID 269 316
FT CARBOHYD 36 36
FT CARBOHYD 72 72
FT CARBOHYD 139 139
FT CARBOHYD 202 202
FT CARBOHYD 286 286
FT CARBOHYD 297 297
FT CARBOHYD 307 307
FT CARBOHYD 332 332
SQ SEQUENCE 515 AA; 57047 MW; BFA00320DDE3785 CRC64;

Query Match 13.3%; Score 234.5; DB 1; Length 515;
Best Local Similarity 25.7%; Pred. No. 2.8e-10;
Matches 80; Conservative 50; Mismatches 130; Indels 51; Gaps 12;

QY 14 VYVIEGAVATISCOVKNKSDSVIQLNPNKQTYFRDRLPKDSRFOLNFSSELKVS 73
DB 62 INQVWQKATNGSKN-----VAIYNPAMGVSVALPYR-----ERAEFLRPSTDTGIRL 111
QY 74 TNVVISDGRYFCOLYTDPP--QESYTTITVLPVPRNLMIDIO-----KDTAVEGEE 123


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1  PRIOR APPLICATION NUMBER: 60/069,702
2  PRIOR FILING DATE: December 16, 1997
3  PRIOR APPLICATION NUMBER: 60/069,870
4  PRIOR FILING DATE: December 17, 1997
5  PRIOR APPLICATION NUMBER: 60/069,873
6  PRIOR FILING DATE: December 17, 1997
7  PRIOR APPLICATION NUMBER: 60/068,017
8  PRIOR FILING DATE: December 18, 1997
9  PRIOR APPLICATION NUMBER: 60/070,440
10 PRIOR FILING DATE: January 5, 1998
11 PRIOR APPLICATION NUMBER: 60/074,086
12 PRIOR FILING DATE: February 9, 1998
13 PRIOR APPLICATION NUMBER: 60/074,092
14 PRIOR FILING DATE: February 9, 1998
15 PRIOR APPLICATION NUMBER: 60/075,945
16 PRIOR FILING DATE: February 25, 1998
17 PRIOR APPLICATION NUMBER: 60/112,850
18 PRIOR FILING DATE: December 16, 1998
19 PRIOR APPLICATION NUMBER: 60/113,296
20 PRIOR FILING DATE: December 22, 1998
21 PRIOR APPLICATION NUMBER: 60/146,222
22 PRIOR FILING DATE: July 28, 1999
23 PRIOR APPLICATION NUMBER: PCT/US98/19330
24 PRIOR FILING DATE: September 16, 1998
25 PRIOR APPLICATION NUMBER: PCT/US98/25108
26 PRIOR FILING DATE: December 1, 1998
27 PRIOR APPLICATION NUMBER: 09/216,021
28 PRIOR FILING DATE: December 16, 1998
29 PRIOR APPLICATION NUMBER: 09/218,517
30 PRIOR FILING DATE: December 22, 1998
31 PRIOR APPLICATION NUMBER: 09/254,311
32 PRIOR FILING DATE: March 3, 1999
33 PRIOR APPLICATION NUMBER: PCT/US99/12252
34 PRIOR FILING DATE: June 22, 1999
35 PRIOR APPLICATION NUMBER: PCT/US99/21090
36 PRIOR FILING DATE: September 15, 1999
37 PRIOR APPLICATION NUMBER: PCT/US99/28409
38 PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
39 PRIOR APPLICATION NUMBER: PCT/US99/28313
40 PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
41 PRIOR APPLICATION NUMBER: PCT/US99/28301
42 PRIOR FILING DATE: December 1, 1999
43 PRIOR APPLICATION NUMBER: PCT/US99/30095
44 PRIOR FILING DATE: December 16, 1999
45 PRIOR APPLICATION NUMBER: PCT/US00/03565
46 PRIOR FILING DATE: February 11, 2000
47 PRIOR APPLICATION NUMBER: PCT/US00/04414
48 PRIOR FILING DATE: February 22, 2000
49 PRIOR APPLICATION NUMBER: PCT/US00/05841
50 PRIOR FILING DATE: March 2, 2000
51 PRIOR APPLICATION NUMBER: PCT/US00/08439
52 PRIOR FILING DATE: March 30, 2000
53 PRIOR APPLICATION NUMBER: PCT/US00/14042
54 PRIOR FILING DATE: May 22, 2000
55 PRIOR APPLICATION NUMBER: PCT/US00/20710
56 PRIOR FILING DATE: July 28, 2000
57 PRIOR APPLICATION NUMBER: PCT/US00/32678
58 PRIOR FILING DATE: December 1, 2000
59 PRIOR APPLICATION NUMBER: PCT/US01/06520
60 PRIOR FILING DATE: February 28, 2001
61 NUMBER OF SEQ ID NOS: 120
62 SEQ ID NO 61
63 LENGTH: 440
64 TYPE: PRT
65 ORGANISM: Homo Sapien
66 US-09-944-413-61

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QY 1 IPTGGQNLFTKDYVIEGEVATISCVNKSDSVQLPNRQTYERDFRPLKDSRFQ 600

Db	37	IPGIGQULNFKDVTYIEGVEAVTISQYNNKSDSDVSIQILNNRQTIYFROFRRPLKDSRFQ	96
Qy	61	LINSSSELSKSLTNVSTISDSGRFYCOLYTPRPOESTTTIVLVPYPRNIMIDIOKOTAVE	120
Db	97	LINSSSELSKSLTNVSTISDSGRFYCOLYTPRPOESTTTIVLVPYPRNIMIDIOKOTAVE	156
Qy	121	GEIEIVNCTAASKRPATTIRFMFGNTLTKGSEVEEMSDMTYVSQMLVKYHKEDDQVPR	180
Db	157	GEIEIVNCTAASKRPATTIRFMFGNTLTKGSEVEEMSDMTYVSQMLVKYHKEDDQVPR	216
Qy	181	ICQVHPAVNTLQTRLEYQYKPYCHIONTYPLQSLTRGSALELTCEALIGKROVYM	240
Db	217	ICQVHPAVNTLQTRLEYQYKPYCHIONTYPLQSLTRGSALELTCEALIGKROVYM	276
Qy	241	TWVRVDDMPOHAYLSGNLEINMLNKTDNSTYRCEASNIYGAHSDMYMLYVDDPRTIP	300
Db	277	TWVRVDDMPOHAYLSGNLEINMLNKTDNSTYRCEASNIYGAHSDMYMLYVDDPRTIP	336
Qy	301	PTTTTTTTTTTTTTTLITINDSRAGEGSSIRAVDH	336
Db	337	PTTTTTTTTTTTTTTLITINDSRAGEGSSIRAVDH	372

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1      RESULT 2
2      US-09-944-403-61
3      ; Sequence 61, Application US/09944403
4      ; Patent No. US20020165143A1
5      ; GENERAL INFORMATION:
6      ; APPLICANT: Baker, Kevin
7      ; APPLICANT: Botstein, David
8      ; APPLICANT: Eaton, Dan
9      ; APPLICANT: Ferrara, Napoleone
10     ; APPLICANT: Filvaroff, Ellen
11     ; APPLICANT: Gertlisen, Mary
12     ; APPLICANT: Goddard, Audrey
13     ; APPLICANT: Godowski, Paul
14     ; APPLICANT: Grimaldi, Christopher
15     ; APPLICANT: Gurney, Austin
16     ; APPLICANT: Hillan, Kenneth
17     ; APPLICANT: Kijavlin, Ivar
18     ; APPLICANT: Napier, Mary
19     ; APPLICANT: Roy, Margaret
20     ; APPLICANT: Tumas, Daniel
21     ; APPLICANT: Wood, William
22     ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
23     ; FILE OF INVENTION: ACIDS ENCODING THE SAME
24     ; FILE REFERENCE: P2548P1C1
25     ; CURRENT APPLICATION NUMBER: US/09/944,403
26     ; CURRENT FILING DATE: 2001-09-26
27     ; PRIOR APPLICATION NUMBER: 09/866, 028
28     ; PRIOR FILING DATE: 2001-05-25
29     ; PRIOR APPLICATION NUMBER: 60/067,411
30     ; PRIOR FILING DATE: December 3, 1997
31     ; PRIOR APPLICATION NUMBER: 60/069, 334
32     ; PRIOR FILING DATE: December 11, 1997
33     ; PRIOR APPLICATION NUMBER: 60/069335
34     ; PRIOR FILING DATE: December 11, 1997
35     ; PRIOR APPLICATION NUMBER: 60/069,278
36     ; PRIOR FILING DATE: December 11, 1997
37     ; PRIOR APPLICATION NUMBER: 60/069,425
38     ; PRIOR FILING DATE: December 12, 1997
39     ; PRIOR APPLICATION NUMBER: 60/069,696
40     ; PRIOR FILING DATE: December 16, 1997
41     ; PRIOR APPLICATION NUMBER: 60/069,694
42     ; PRIOR FILING DATE: December 16, 1997
43     ; PRIOR APPLICATION NUMBER: 60/069,702
44     ; PRIOR FILING DATE: December 16, 1997
45     ; PRIOR APPLICATION NUMBER: 60/069,870
46     ; PRIOR FILING DATE: December 17, 1997
47     ; PRIOR APPLICATION NUMBER: 60/069,873
48     ; PRIOR FILING DATE: December 17, 1997
49     ; PRIOR APPLICATION NUMBER: 60/068, 017
50     ; PRIOR FILING DATE: December 18, 1997

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PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020165143A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-403-61

Query Match 100.0% Score 1761: DB 9: Length 440:
Best Local Similarity 100.0% Pred. No. 1.7e-105:
Matches 336: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

QY 1 IFTGDSQNFETDVYIEGEVATISQVKNKSDSVIQLNPNQOTIYFRDFRPLKDSRFQ 60
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DB 37 IFTGDSQNFETDVYIEGEVATISQVKNKSDSVIQLNPNQOTIYFRDFRPLKDSRFQ 96
|||||
QY 61 LNFSSSELKSVLTNVSISDEGRYFCQLYTPPQESYTTITVLVPPRLMIDIQKTAVE 120
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DB 97 LNFSSSELKSVLTNVSISDEGRYFCQLYTPPQESYTTITVLVPPRLMIDIQKTAVE 156
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QY 121 GEIEVNCATAMASKPATTTIRWFGKNTLGKSKSVEEWSMDMTYTTSQLMLKVKHKEDGCVY 180
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DB 157 GEIEVNCATAMASKPATTTIRWFGKNTLGKSKSVEEWSMDMTYTTSQLMLKVKHKEDGCVY 216
QY 181 ICQVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPIQGLTREGDALETCGAIGKPPVMV 240
|||||
DB 217 ICQVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPIQGLTREGDALETCGAIGKPPVMV 276
|||||
QY 241 TWRVDDDEMPQHAVISGPNLFTNNLKNKTNDNGTYRCASINVCRAHSDYMLYVDPPTTIP 300
|||||
DB 277 TWRVDDDEMPQHAVISGPNLFTNNLKNKTNDNGTYRCASINVCRAHSDYMLYVDPPTTIP 336
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QY 301 PPTTT 336
DB 337 PPTTT 372

RESULT 3
US-09-944-896-61
Sequence 61, Application US/09944896
Patent No. US20020168715A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548PICI
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: US/09/944,896
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998

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; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-896-61
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Query Match 100.0%; Score 1761; DB 9; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.7e-105;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 IPTGDSGNLFTKDVYIEGEVATISQVKNKSDSVIQLNPNKQTYFRDFRLKDSRFQ 60
DB 37 IPTGDSGNLFTKDVYIEGEVATISQVKNKSDSVIQLNPNKQTYFRDFRLKDSRFQ 96
QY 61 LNFSSSELKVSLLTNVISDEGRYFCOLYTDPPQESTTTTIVLVPPRNLMIDIOKDTAVE 120
DB 97 LNFSSSELKVSLLTNVISDEGRYFCOLYTDPPQESTTTTIVLVPPRNLMIDIOKDTAVE 156
QY 121 GEEIEVNCAMASKPATTTIRFWKGNTELKGSSEVEMSDMYTTSQMLKVHKEDDGPVY 180
DB 157 GEEIEVNCAMASKPATTTIRFWKGNTELKGSSEVEMSDMYTTSQMLKVHKEDDGPVY 216
QY 181 ICQVEHPAYTGNLQOTORYLEVQYKPPVHIQMTYPLQGLTFREGDALELTCEAIKQPVMY 240
DB 217 ICQVEHPAYTGNLQOTORYLEVQYKPPVHIQMTYPLQGLTFREGDALELTCEAIKQPVMY 276
QY 241 TWVRVDEMPQAHAVLSGPNLFINNLTNGTYRCEASNTVGAHSDYMLYYVDPPTTIP 300
DB 277 TWVRVDEMPQAHAVLSGPNLFINNLTNGTYRCEASNTVGAHSDYMLYYVDPPTTIP 336
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QY 301 PPTTTTTTTTTTTTTTTTTTDSRAGEGSIKRAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTTDSRAGEGSIKRAVDH 372
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RESULT 4
US-09-866-028-61
; Sequence 61, Application US/09866028
; Patent No. US20020058309A1
; GENERAL INFORMATION:
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```
; APPLICANT: Baker, Kevin
; APPLICANT: Holstein, David
; APPLICANT: Balon, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerltsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavlin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tomas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT FILING DATE: 2001-05-25
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-866-028-61
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Query Match 100.0%; Score 1761; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.7e-105;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 IPTGDSGNLFTKDVYIEGEVATISQVKNKSDSVIQLNPNKQTYFRDFRLKDSRFQ 60
DB 37 IPTGDSGNLFTKDVYIEGEVATISQVKNKSDSVIQLNPNKQTYFRDFRLKDSRFQ 96
QY 61 LNFSSSELKVSLLTNVISDEGRYFCOLYTDPPQESTTTTIVLVPPRNLMIDIOKDTAVE 120
DB 97 LNFSSSELKVSLLTNVISDEGRYFCOLYTDPPQESTTTTIVLVPPRNLMIDIOKDTAVE 156
QY 121 GEEIEVNCAMASKPATTTIRFWKGNTELKGSSEVEMSDMYTTSQMLKVHKEDDGPVY 180
DB 157 GEEIEVNCAMASKPATTTIRFWKGNTELKGSSEVEMSDMYTTSQMLKVHKEDDGPVY 216
QY 181 ICQVEHPAYTGNLQOTORYLEVQYKPPVHIQMTYPLQGLTFREGDALELTCEAIKQPVMY 240
DB 217 ICQVEHPAYTGNLQOTORYLEVQYKPPVHIQMTYPLQGLTFREGDALELTCEAIKQPVMY 276
QY 241 TWVRVDEMPQAHAVLSGPNLFINNLTNGTYRCEASNTVGAHSDYMLYYVDPPTTIP 300
DB 277 TWVRVDEMPQAHAVLSGPNLFINNLTNGTYRCEASNTVGAHSDYMLYYVDPPTTIP 336
QY 301 PPTTTTTTTTTTTTTTTTTTDSRAGEGSIKRAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTTDSRAGEGSIKRAVDH 372
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RESULT 5
US-09-944-449-61
; Sequence 61, Application US/09944449
; Patent No. US20020102647A1
; GENERAL INFORMATION:
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APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Flvaroff, Ellen
APPLICANT: Gerltsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1
CURRENT APPLICATION NUMBER: US/09/944,449
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 5, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999

PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-449-61
Query Match 100.0%; Score 1761; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.7e-105;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IPGGQGNLFKDYVYIEGEVATISCVNKSDDSVIQLNPNKOTYFRDFRLKSRQ 60
DB 37 IPGGQGNLFKDYVYIEGEVATISCVNKSDDSVIQLNPNKOTYFRDFRLKSRQ 96
QY 61 LNFSSSELKVSILTNVISDEGRFCOLYTDPPQESYTTTVVPPRNLMIDOKTAVE 120
DB 97 LNFSSSELKVSILTNVISDEGRFCOLYTDPPQESYTTTVVPPRNLMIDOKTAVE 156
QY 121 GEEIEVNCATAMASKPATTTTWFKNTELKGSVEEEMSDMTVTTSQMLKVKHEDGVPV 180
DB 157 GEEIEVNCATAMASKPATTTTWFKNTELKGSVEEEMSDMTVTTSQMLKVKHEDGVPV 216
QY 181 ICQVEHPAVTGNLQOTRYLEVOYKPOVHIOMTYPLDGLTREGDALELTCEAIGKPPVAV 240
DB 217 ICQVEHPAVTGNLQOTRYLEVOYKPOVHIOMTYPLDGLTREGDALELTCEAIGKPPVAV 276
QY 241 TTVVRVDEMPQAHAVLSGPNLFINNLKTDNGTYRCEASNIVGKAHSDMYLYVDPPTTIP 300
DB 277 TTVVRVDEMPQAHAVLSGPNLFINNLKTDNGTYRCEASNIVGKAHSDMYLYVDPPTTIP 336
QY 301 PPTTTTTTTTTTTTTTTTTTDSRAGEEGSIRAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTTDSRAGEEGSIRAVDH 372
RESULT 6
US-09-944-457-61
Sequence 61, Application US/09944457
Patent No. US20020110859A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Flvaroff, Ellen
APPLICANT: Gerltsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul

APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,457
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: NO. US20020110859A1member 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: NO. US20020110859A1member 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999

PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-457-61
Query Match 100.0%; Score 1761; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.7e-105;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IPNGDGNLTFTKDVTEGEVATSCOVNKSDDSVIOLNPNRQTYFRDPRPKDSRFQ 60
DB 37 IPFGDGNLTFTKDVTEGEVATSCOVNKSDDSVIOLNPNRQTYFRDPRPKDSRFQ 96
QY 61 LNFSSSELKVSLSFNVSISDEGRFCQLYNDPQESTYTTVLVPPNNLMIDIOKDAVE 120
DB 97 LNFSSSELKVSLSFNVSISDEGRFCQLYNDPQESTYTTVLVPPNNLMIDIOKDAVE 136
QY 121 GEEIEVNCCTAMASKPATTTIMFKGNTLKGKSEVEESDMYTYTSQMLKVKHEDGVPV 180
DB 157 GEEIEVNCCTAMASKPATTTIMFKGNTLKGKSEVEESDMYTYTSQMLKVKHEDGVPV 216
QY 181 ICQVHPAVGNIGOTOXYLLEVQYKPOVHIOMTYPILOGLTREGALLETCAIKRQPVNV 240
DB 217 ICQVHPAVGNIGOTOXYLLEVQYKPOVHIOMTYPILOGLTREGALLETCAIKRQPVNV 276
QY 241 TWVRVDEMPQHVAVLSGPNLFNNLNKTDNGTYRCEASNVIGRAHSDYMLYVVDPPPTIP 300
DB 277 TWVRVDEMPQHVAVLSGPNLFNNLNKTDNGTYRCEASNVIGRAHSDYMLYVVDPPPTIP 336
QY 301 PPTTTTTTTTTTTTTTTTTTDSRAGEGSIKRAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTTDSRAGEGSIKRAVDH 372
RESULT 7
US-09-944-862-61
Sequence 61, Application US/09944862
Patent No. US20020115145A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Geritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: US/09/944,862
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US200201151451member 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US200201151451member 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000

PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Saplen
US-09-944-862-61
Query Match 100.0%; Score 1761; DB 10; Length 440;
Best Local Similarity 100.0%; Pred No. 1.7e-105;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IPTGDGNLFTKDVITYEGEVATISQVNSDSDSVIQLNPNROTIFYRDFRPLKDSRFQ 60
DB 37 IPTGDGNLFTKDVITYEGEVATISQVNSDSDSVIQLNPNROTIFYRDFRPLKDSRFQ 96
QY 61 LMFSSSELKVSLTNVSISDEGRFCOLYTDPPQESTTTTIVLYPPNLMIDIOKTAVE 120
DB 97 LMFSSSELKVSLTNVSISDEGRFCOLYTDPPQESTTTTIVLYPPNLMIDIOKTAVE 156
QY 121 GEELEVNCTAMASKPATTTFMFKNTLEKSEVEESMDYVTSOLMLKVHKEDGVPV 180
DB 157 GEELEVNCTAMASKPATTTFMFKNTLEKSEVEESMDYVTSOLMLKVHKEDGVPV 216
QY 181 ICVEHPAVTGNLQTORYLEVQYKPOVNIQMTYPLQGLTREGDALLETCEAIGKPOPVV 240
DB 217 ICVEHPAVTGNLQTORYLEVQYKPOVNIQMTYPLQGLTREGDALLETCEAIGKPOPVV 276
QY 241 TWRVVDDEMPQHAVLSCPNLFINNLTNDNGTYRCEASNVGKAHSYMLYVDDPTTIP 300
DB 277 TWRVVDDEMPQHAVLSCPNLFINNLTNDNGTYRCEASNVGKAHSYMLYVDDPTTIP 336
QY 301 PPTTTTTTTTTTTTTTTTTTDSRAGEGSIRAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTTDSRAGEGSIRAVDH 372
RESULT 8
US-09-945-587-61
Sequence 61, Application US/09945587
Patent No. US20020127643A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/945,587
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411

PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,596
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: NO. US20020127643A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: NO. US20020127643A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001

NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-945-587-61

Query Match 100.0%; Score 1761; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1,7e-105;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPTDGGNLFTRKDVTVIEGEVATISQVNSSDSVIQLNPNROTIFYRDFRPLKDSRFQ 60
DB 37 IPTDGGNLFTRKDVTVIEGEVATISQVNSSDSVIQLNPNROTIFYRDFRPLKDSRFQ 96
QY 61 LLNSSFELKSLTNVSTSDGRCFQLYDPPESTTTTVLPVPRMLDIOKDAVE 120
DB 97 LLNSSFELKSLTNVSTSDGRCFQLYDPPESTTTTVLPVPRMLDIOKDAVE 156
QY 121 GEEIEVNCTAMASKPATIRFMFKGNTLKGSEVEESDMYTVTSOLMLKYHKEDGVPV 180
DB 157 GEEIEVNCTAMASKPATIRFMFKGNTLKGSEVEESDMYTVTSOLMLKYHKEDGVPV 216
QY 181 ICQVHPAVTGNLTQRYLEVOYKPOVHIQWTYPLQGLTRGDALIELCEAIKRPQVNV 240
DB 217 ICQVHPAVTGNLTQRYLEVOYKPOVHIQWTYPLQGLTRGDALIELCEAIKRPQVNV 276
QY 241 TWVAVDDMPQHAVLSGPNLEINLNKNTDNGTYGCASNIVGKHSYMLYVDPPTIP 300
DB 277 TWVAVDDMPQHAVLSGPNLEINLNKNTDNGTYGCASNIVGKHSYMLYVDPPTIP 336
QY 301 PPTTTTTTTTTTTTTTTTTTSDSRAGEGSIRAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTTSDSRAGEGSIRAVDH 372

RESULT 9
US-09-945-015-61
Sequence 61, Application us/09945015
Patent No. US20020132768A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerltsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/945, 015
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067, 411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069, 334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 425

PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/234,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-945-015-61

Query Match 100.0%; Score 1761; DB 10; Length 440;

Best Local Similarity 100.0%; Pred. No. 1.7e-105;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IPGDDONLFTKDVYIEEBVATISCOVKNKSDSVIQLNPNKOTYFNRFRLLKKSRRQ 60
Db 37 IPGDDONLFTKDVYIEEBVATISCOVKNKSDSVIQLNPNKOTYFNRFRLLKKSRRQ 96
QY 61 LNFSSSELKVSILTVNSISDEGRFCOLYTDPPQESYTTTVLVPRNLIMIDIOKDTAVE 120
Db 97 LNFSSSELKVSILTVNSISDEGRFCOLYTDPPQESYTTTVLVPRNLIMIDIOKDTAVE 156
QY 121 GEEIEVNCAMASKPATYTRWFKGNTELKGSVEEWSMDYTVTSOLMLKVHKEDGCVY 180
Db 157 GEEIEVNCAMASKPATYTRWFKGNTELKGSVEEWSMDYTVTSOLMLKVHKEDGCVY 216
QY 181 ICQVHPAYTGNLQTORYLEVOYKPOVHIOMYPLQGLTRREGDALFLTCGATGKPOVWV 240
Db 217 ICQVHPAYTGNLQTORYLEVOYKPOVHIOMYPLQGLTRREGDALFLTCGATGKPOVWV 276
QY 241 TWVRVDENPOHAVLSGPNLFNNLNKTDNGTYRCEASNIVGKASHDMLVYVDPPTTTP 300
Db 277 TWVRVDENPOHAVLSGPNLFNNLNKTDNGTYRCEASNIVGKASHDMLVYVDPPTTTP 336
QY 301 PPTT 336
Db 337 PPTT 372
RESULT 10
US-09-944-396-61
Sequence 61, Application US/09944396
Patent No. US20020132981A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gertlsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548PICI
CURRENT APPLICATION NUMBER: US/09/944,396
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870

;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/069,873
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/068,017
;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020132981A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 61
;; LENGTH: 440
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-396-61

Query Match 100.0%; Score 1761; DB 10; Length 440;

Best Local Similarity 100.0%; Pred. No. 1.7e-105;

Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 IPTGDSQNTFTKDVNVEIEGVATISCOVNSDSDSVIQLNPNQOTYFRDFRLKDSRFQ 60
Db 37 IPTGDSQNTFTKDVNVEIEGVATISCOVNSDSDSVIQLNPNQOTYFRDFRLKDSRFQ 96
Qy 61 LNFSSSELKVSILTVNISDEGRYFCQLYTPDPEESYTTITVLVPPRNLMIDIOKDTAVE 120

Db 97 LNFSSSELKVSILTVNISDEGRYFCQLYTPDPEESYTTITVLVPPRNLMIDIOKDTAVE 156
Qy 121 GEEIEVNCSTMAKSPATTIMFKNTFLKGSKEVEBSMDWTYSOLMLKVKHKKDDCVPV 180
Db 157 GEEIEVNCSTMAKSPATTIMFKNTFLKGSKEVEBSMDWTYSOLMLKVKHKKDDCVPV 216
Qy 181 ICQYENPAVTGNLOTOXYLEVOYKPOYHIOMTYPLQGLTFREGDALFETCEAIGKPPVMV 240
Db 217 ICQYENPAVTGNLOTOXYLEVOYKPOYHIOMTYPLQGLTFREGDALFETCEAIGKPPVMV 276
Qy 241 TWVRVDEMPQHAVLSPNLFNNLNTDNGYRCEASNIYKRAHSDYMLVYDPTTIP 300
Db 277 TWVRVDEMPQHAVLSPNLFNNLNTDNGYRCEASNIYKRAHSDYMLVYDPTTIP 336
Qy 301 PPTTTTTTTTTTTTTTTTTTSDRAGEGSTRADVH 336
Db 337 PPTTTTTTTTTTTTTTTTTTSDRAGEGSTRADVH 372

RESULT 11

US-09-944-097-61

; Sequence 61, Application US/09944097

; Patent No. US2002013675A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin

; APPLICANT: Botstein, David

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gerlitsen, Mary

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Grimaldi, Christopher

; APPLICANT: Gurney, Austin

; APPLICANT: Hillan, Kenneth

; APPLICANT: Kijavlin, Ivar

; APPLICANT: Napier, Mary

; APPLICANT: Roy, Margaret

; APPLICANT: Tumas, Daniel

; APPLICANT: Wood, William

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; FILE REFERENCE: P2548P1C1

; CURRENT APPLICATION NUMBER: US/09/944,097

; CURRENT FILING DATE: 2001-08-31

; PRIOR APPLICATION NUMBER: 09/866,028

; PRIOR FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: 60/069,334

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069335

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,278

; PRIOR FILING DATE: December 11, 1997

; PRIOR APPLICATION NUMBER: 60/069,425

; PRIOR FILING DATE: December 12, 1997

; PRIOR APPLICATION NUMBER: 60/069,696

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,694

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,702

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,870

; PRIOR FILING DATE: December 16, 1997

; PRIOR APPLICATION NUMBER: 60/069,873

; PRIOR FILING DATE: December 17, 1997

; PRIOR APPLICATION NUMBER: 60/068,017

; PRIOR FILING DATE: December 18, 1997

; PRIOR APPLICATION NUMBER: 60/070,440

; PRIOR FILING DATE: January 5, 1998

; PRIOR APPLICATION NUMBER: 60/074,086

; PRIOR FILING DATE: February 9, 1998

; PRIOR APPLICATION NUMBER: 60/074,092

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? PRIOR FILING DATE: February 9, 1998
? PRIOR APPLICATION NUMBER: 60/075,945
? PRIOR FILING DATE: February 25, 1998
? PRIOR APPLICATION NUMBER: 60/112,850
? PRIOR FILING DATE: December 16, 1998
? PRIOR APPLICATION NUMBER: 60/113,296
? PRIOR FILING DATE: December 22, 1998
? PRIOR APPLICATION NUMBER: 60/146,222
? PRIOR FILING DATE: July 28, 1999
? PRIOR APPLICATION NUMBER: PCT/US98/19330
? PRIOR FILING DATE: September 16, 1998
? PRIOR APPLICATION NUMBER: PCT/US98/25108
? PRIOR FILING DATE: December 1, 1998
? PRIOR APPLICATION NUMBER: 09/216,021
? PRIOR FILING DATE: December 16, 1998
? PRIOR APPLICATION NUMBER: 09/218,517
? PRIOR FILING DATE: December 22, 1998
? PRIOR APPLICATION NUMBER: 09/254,311
? PRIOR FILING DATE: March 3, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/12252
? PRIOR FILING DATE: June 22, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/21090
? PRIOR FILING DATE: September 15, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28409
? PRIOR FILING DATE: NO. US20020133675A1ember 30, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28313
? PRIOR FILING DATE: NO. US20020133675A1ember 30, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28301
? PRIOR FILING DATE: December 1, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/30095
? PRIOR FILING DATE: December 16, 1999
? PRIOR APPLICATION NUMBER: PCT/US00/03565
? PRIOR FILING DATE: February 11, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/04414
? PRIOR FILING DATE: February 22, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/05841
? PRIOR FILING DATE: March 2, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/08439
? PRIOR FILING DATE: March 30, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/14042
? PRIOR FILING DATE: May 22, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/20710
? PRIOR FILING DATE: July 28, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/32678
? PRIOR FILING DATE: December 1, 2000
? PRIOR APPLICATION NUMBER: PCT/US01/06520
? PRIOR FILING DATE: February 28, 2001
? NUMBER OF SEQ ID NOS: 120
? SEQ ID NO 61
? LENGTH: 440
? TYPE: PRT
? ORGANISM: Homo Sapien
US-09-944-097-61

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Query Match 100.0%; Score 1761; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.7e-105;
Matches 336: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 37 IPFGDQNLFTADYVIEGEVATISCVNKSQSDSVIQLPNKQTYFRDRLKSRFQ 96
QY 61 LNFSSSELKSVLTNVSIDEGRYFCOLYTDPPQESYTTTIVVPPRNLMIDIOKTAVE 120
DB 97 LNFSSSELKSVLTNVSIDEGRYFCOLYTDPPQESYTTTIVVPPRNLMIDIOKTAVE 156
QY 121 GEEIEVNCAMASKPATITRMFKNTLELKGSEVEEMSDMYTYSQMLKVKHKEDGVPY 180
DB 157 GEEIEVNCAMASKPATITRMFKNTLELKGSEVEEMSDMYTYSQMLKVKHKEDGVPY 216
QY 181 IGOVEHPATYGNLQOTRYLEVQYKRPVYHIOMTYPLQGLTREGALLETCAIKCPQVWY 240
DB 217 IGOVEHPATYGNLQOTRYLEVQYKRPVYHIOMTYPLQGLTREGALLETCAIKCPQVWY 276

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QY 241 TWRVDEMPQHAVLSGPNLFINNKNKTONGTYRCEASNIVGKAHSDYMLVYVDPPTTIP 300
DB 277 TWRVDEMPQHAVLSGPNLFINNKNKTONGTYRCEASNIVGKAHSDYMLVYVDPPTTIP 336
QY 301 PPTTTTTTTTTTTTTTTTTTTTDSRAGEBSIRAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTTTTDSRAGEBSIRAVDH 372

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RESULT 12

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US-09-944-432-61
? Sequence 61, Application US/09944432
? Patent No. US20020142419A1
? GENERAL INFORMATION:
? APPLICANT: Baker, Kevin
? APPLICANT: Botstein, David
? APPLICANT: Eaton, Dan
? APPLICANT: Ferrara, Napoleone
? APPLICANT: Filvaroff, Ellen
? APPLICANT: Gerltsen, Mary
? APPLICANT: Goddard, Audrey
? APPLICANT: Godowski, Paul
? APPLICANT: Grimaldi, Christopher
? APPLICANT: Guiney, Austen
? APPLICANT: Hillan, Kenneth
? APPLICANT: Kijavlin, Ivar
? APPLICANT: Napier, Mary
? APPLICANT: Roy, Margaret
? APPLICANT: Tumas, Daniel
? APPLICANT: Wood, William
? TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
? FILE REFERENCE: P2548P1C1
? CURRENT APPLICATION NUMBER: US/09/944,432
? CURRENT FILING DATE: 2001-09-26
? PRIOR APPLICATION NUMBER: 09/866,028
? PRIOR FILING DATE: 2001-05-25
? PRIOR APPLICATION NUMBER: 60/067,411
? PRIOR FILING DATE: December 3, 1997
? PRIOR APPLICATION NUMBER: 60/069,334
? PRIOR FILING DATE: December 11, 1997
? PRIOR APPLICATION NUMBER: 60/069,335
? PRIOR FILING DATE: December 11, 1997
? PRIOR APPLICATION NUMBER: 60/069,278
? PRIOR FILING DATE: December 11, 1997
? PRIOR APPLICATION NUMBER: 60/069,425
? PRIOR FILING DATE: December 12, 1997
? PRIOR APPLICATION NUMBER: 60/069,696
? PRIOR FILING DATE: December 16, 1997
? PRIOR APPLICATION NUMBER: 60/069,694
? PRIOR FILING DATE: December 16, 1997
? PRIOR APPLICATION NUMBER: 60/069,702
? PRIOR FILING DATE: December 16, 1997
? PRIOR APPLICATION NUMBER: 60/069,870
? PRIOR FILING DATE: December 17, 1997
? PRIOR APPLICATION NUMBER: 60/069,873
? PRIOR FILING DATE: December 17, 1997
? PRIOR APPLICATION NUMBER: 60/068,017
? PRIOR FILING DATE: December 18, 1997
? PRIOR APPLICATION NUMBER: 60/070,440
? PRIOR FILING DATE: January 5, 1998
? PRIOR APPLICATION NUMBER: 60/074,086
? PRIOR FILING DATE: February 9, 1998
? PRIOR APPLICATION NUMBER: 60/074,092
? PRIOR FILING DATE: February 9, 1998
? PRIOR APPLICATION NUMBER: 60/075,945
? PRIOR FILING DATE: February 25, 1998
? PRIOR APPLICATION NUMBER: 60/112,850
? PRIOR FILING DATE: December 16, 1998
? PRIOR APPLICATION NUMBER: 60/113,296
? PRIOR FILING DATE: December 22, 1998
? PRIOR APPLICATION NUMBER: 60/146,222

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? PRIOR FILING DATE: July 28, 1999
? PRIOR APPLICATION NUMBER: PCT/US98/19330
? PRIOR FILING DATE: September 16, 1998
? PRIOR APPLICATION NUMBER: PCT/US98/25108
? PRIOR FILING DATE: December 1, 1998
? PRIOR APPLICATION NUMBER: 09/216,021
? PRIOR FILING DATE: December 16, 1998
? PRIOR APPLICATION NUMBER: 09/218,517
? PRIOR FILING DATE: December 22, 1998
? PRIOR APPLICATION NUMBER: 09/254,311
? PRIOR FILING DATE: March 3, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/12252
? PRIOR FILING DATE: June 22, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/21090
? PRIOR FILING DATE: September 15, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28409
? PRIOR FILING DATE: No. US20020142419A1ember 30, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28313
? PRIOR FILING DATE: No. US20020142419A1ember 30, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28301
? PRIOR FILING DATE: December 1, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/30095
? PRIOR FILING DATE: December 16, 1999
? PRIOR APPLICATION NUMBER: PCT/US00/03565
? PRIOR FILING DATE: February 11, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/04414
? PRIOR FILING DATE: February 22, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/05841
? PRIOR FILING DATE: March 2, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/08439
? PRIOR FILING DATE: March 30, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/14042
? PRIOR FILING DATE: May 22, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/20710
? PRIOR FILING DATE: July 28, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/32678
? PRIOR FILING DATE: December 1, 2000
? PRIOR APPLICATION NUMBER: PCT/US01/06520
? PRIOR FILING DATE: February 28, 2001
? NUMBER OF SEQ ID NOS: 120
? SEQ ID NO 61
? LENGTH: 440
? TYPE: PRT
? ORGANISM: Homo Sapien
US-09-944-432-61

Query Match      100.0%; Score 1761; DB 10: Length 440;
Best Local Similarity 100.0%; Pred No. 1.7e-105;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPTGDSQNLFTKDVYIEGEVATISCOVNKSDSDSVIQLNPNKQIYFRDPRFLKDSRFQ 60
DB 37 IPTGDSQNLFTKDVYIEGEVATISCOVNKSDSDSVIQLNPNKQIYFRDPRFLKDSRFQ 96

QY 61 LINESSELKSVLTNVSISSEGRYFCQLYTDPPQESYTTITVVPNNLMIDIOKTFAYE 120
DB 97 LINESSELKSVLTNVSISSEGRYFCQLYTDPPQESYTTITVVPNNLMIDIOKTFAYE 156

QY 121 GEEIEVNCATAMASKPATTTIRMFKGNTELKGSSEVEEMSDMYTWSOLMLKVHKEDGCVPV 180
DB 157 GEEIEVNCATAMASKPATTTIRMFKGNTELKGSSEVEEMSDMYTWSOLMLKVHKEDGCVPV 216

QY 181 ICQVEHPAVTGNLQTORYLEVOYKPOVHIQMTYPLQGLREGDALELTCEAIKPPQVMV 240
DB 217 ICQVEHPAVTGNLQTORYLEVOYKPOVHIQMTYPLQGLREGDALELTCEAIKPPQVMV 276

QY 241 TWVRVDEMPQAHVLSGPNLFNNLKTNGTYRCASNVGCAHSDYMLVYVDPPTTIP 300
DB 277 TWVRVDEMPQAHVLSGPNLFNNLKTNGTYRCASNVGCAHSDYMLVYVDPPTTIP 336

QY 301 PPTTTTTTTTTTTTTTTTTTSSRAGEEGSIRAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTTSSRAGEEGSIRAVDH 372
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RESULT 13
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? Patent No. US20020142958A1
? GENERAL INFORMATION:
? APPLICANT: Baker, Kevin
? APPLICANT: Botstein, David
? APPLICANT: Eaton, Dan
? APPLICANT: Ferrara, Napoleone
? APPLICANT: Filvaroff, Ellen
? APPLICANT: Geriltsen, Mary
? APPLICANT: Goddard, Audrey
? APPLICANT: Godowski, Paul
? APPLICANT: Grimaldi, Christopher
? APPLICANT: Gurney, Austin
? APPLICANT: Hillan, Kenneth
? APPLICANT: KJavin, Ivar
? APPLICANT: Napier, Mary
? APPLICANT: Roy, Margaret
? APPLICANT: Tumas, Daniel
? APPLICANT: Wood, William
? TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
? FILE REFERENCE: P2548P101
? CURRENT APPLICATION NUMBER: US/09/943,762
? PRIOR FILING DATE: 2001-09-26
? PRIOR APPLICATION NUMBER: 09/866,028
? PRIOR FILING DATE: 2001-05-25
? PRIOR APPLICATION NUMBER: 60/067,411
? PRIOR FILING DATE: December 3, 1997
? PRIOR APPLICATION NUMBER: 60/069,334
? PRIOR FILING DATE: December 11, 1997
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? PRIOR FILING DATE: December 11, 1997
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? PRIOR APPLICATION NUMBER: 60/069,873
? PRIOR FILING DATE: December 17, 1997
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? PRIOR APPLICATION NUMBER: 60/074,086
? PRIOR FILING DATE: February 9, 1998
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? PRIOR FILING DATE: February 25, 1998
? PRIOR APPLICATION NUMBER: 60/112,850
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? PRIOR APPLICATION NUMBER: 60/113,296
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? PRIOR APPLICATION NUMBER: 60/146,222
? PRIOR FILING DATE: July 28, 1999
? PRIOR APPLICATION NUMBER: PCT/US98/19330
? PRIOR FILING DATE: September 16, 1998
? PRIOR APPLICATION NUMBER: PCT/US98/25108
? PRIOR FILING DATE: December 1, 1998
? PRIOR APPLICATION NUMBER: 09/216,021
? PRIOR FILING DATE: December 16, 1998
? PRIOR APPLICATION NUMBER: 09/218,517
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; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
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; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
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; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-943-762-61

Query Match      100.0%  Score 1761; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1,7e-105;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 217 IGOVEHPAVTGNLQORYLEVOYKRPVNHQMTYVPLQGLTREGDALELTCEAIGKPPVAV 276
QY 241 TVVRRVDDDEHPAHAVLSGPNLFTNNLNKKTNGTYRCASNIYGAHSDYMLVYVDPPTTIP 300
DB 277 TVVRRVDDDEHPAHAVLSGPNLFTNNLNKKTNGTYRCASNIYGAHSDYMLVYVDPPTTIP 336
QY 301 PPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 336
DB 337 PPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 372

RESULT 14
US-09-944-654-61
; Sequence 61, Application US/09944654
; Patent No. US20020142959A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
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; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerlitsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,654
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
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; PRIOR FILING DATE: December 16, 1998
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; PRIOR FILING DATE: December 22, 1998
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; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
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;; PRIOR FILING DATE: No. US20020142959a1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020142959a1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 61
;; LENGTH: 440
;; TYPE: PRT
;; ORGANISM: Homo sapien
US-09-944-654-61

Query Match 100.0%; Score 1761; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.7e-105;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 37 IPTGDSGNLTFTKVTYIEGVATISCOVNSDSQSVIQLNPNQOTYFRERPLKDSRFQ 96
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GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Geritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher

;; APPLICANT: Gurney, Austin
;; APPLICANT: Hillan, Kenneth
;; APPLICANT: Kijavlin, Ivar
;; APPLICANT: Napier, Mary
;; APPLICANT: Roy, Margaret
;; APPLICANT: Tomas, Daniel
;; APPLICANT: Wood, William
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P2548P1C1
;; CURRENT APPLICATION NUMBER: US/09/943, 851A
;; CURRENT FILING DATE: 2001-08-30
;; PRIOR APPLICATION NUMBER: US/09/866, 028
;; PRIOR FILING DATE: 2001-05-25
;; PRIOR APPLICATION NUMBER: 60/067, 411
;; PRIOR FILING DATE: December 3, 1997
;; PRIOR APPLICATION NUMBER: 60/069, 334
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;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US20020150976a1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
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;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
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;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 61
;; LENGTH: 440
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-943-851A-61

Query Match 100.0%; Score 1761; DB 10; Length 440;
Best Local Similarity 100.0%; Pred. No. 1.7e-105;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 301 PPTTTTTTTTTTTTTLTIITDSRAGEEGSIRAVDH 336
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GenCore version 5.1.3
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM protein - protein search, using sw model

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Title: US-09-778-187b-2_COPY_39_374

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Gapop 10.0 , Gapext 0.5

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1761	100.0	440	21	AA201321
4	1761	100.0	440	22	AAU25040
5	1761	100.0	442	21	AA25619
6	1761	100.0	442	21	AAV94341
7	1761	100.0	442	21	AAV45092
8	1761	100.0	442	23	AAE19887
9	1741	98.9	423	21	AAV45093
10	1704	96.8	364	21	AA25586

11	1612.5	91.6	443	22	AA289427
12	1591	90.3	414	21	AAV53028
13	1134.5	64.4	229	21	AA25593
14	629	35.7	387	22	AA278418
15	623.5	35.4	444	20	AAV33741
16	623.5	35.4	444	22	AA247251
17	604	34.3	388	22	AA21897
18	597	33.9	388	22	AA279402
19	578.5	32.9	404	23	AB266677
20	576.5	32.7	404	22	AA261142
21	482.5	27.4	398	21	AA269287
22	482.5	27.4	404	22	AA200868
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36	471.5	26.8	413	22	AA200867
37	471.5	26.8	564	21	AAV94406
38	469.5	26.7	344	22	AB251281
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ALIGNMENTS

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KW	diagnostics; forensic test; gene mapping; genetic disorder;	
KW	biodefensily; gene therapy; nutrition.	
OS	Homo sapiens.	
XX		
PN	WO200154477-A2.	
PD	02-AUG-2001.	
XX		
PF	25-JAN-2001; 2001WO-0502687.	
XX		
PR	25-JAN-2000; 2000US-0491404.	
PR	17-JUL-2000; 2000US-0617746.	
PR	03-AUG-2000; 2000US-0631451.	
PR	15-SEP-2000; 2000US-0663870.	
XX		
PA	(HYSE-) HYSEQ INC.	
XX		
PI	Tang YF, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;	
XX	Cao Y, Drmanac RA, Zhang J, Weirman T;	

DR WPI; 2001-476164/51.
 DR N-PSDB; AAB98350.
 XX Isolated polypeptide for treatment of diseases, diagnostics, raising
 PT antibodies and research use -
 XX
 PS Claim 20; Page 877-878; 1275pp; English.
 CC The present invention provides the protein and coding sequences of novel
 CC proteins from a variety of organisms, including human, dog, cat, horse,
 CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
 CC urchin and tomato. These were derived from expressed sequence tags (ESTs)
 CC from the organism of interest. They can be used in diagnostics, to assess
 CC biodiversity, gene mapping, identification of mutations, to assess
 CC protein of the invention.
 CC
 SO Sequence 402 AA;
 Query Match 100.0%; Score 1761; DB 22; Length 402;
 Best Local Similarity 100.0%; Pred. No. 1.8e-122;
 Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 IPFGDGNLFTKQVTVIEGEVATISCOVNSSDSVIQLNPNKQTIYFRDPRPKDSRFQ 60
 DB 39 IPFGDGNLFTKQVTVIEGEVATISCOVNSSDSVIQLNPNKQTIYFRDPRPKDSRFQ 98
 QY 61 LNFSSSELKVSLLNWSISDEGRYFCOLYDPPQESTYTTTVLVPPRNLMIDIOKDTAVE 120
 DB 99 LNFSSSELKVSLLNWSISDEGRYFCOLYDPPQESTYTTTVLVPPRNLMIDIOKDTAVE 158
 QY 121 GEEIEVNCSTAMASKPATTTIMFKGNTLKGKSEVEEMSDMYTVTSQMLKVHKEDGVPV 180
 DB 159 GEEIEVNCSTAMASKPATTTIMFKGNTLKGKSEVEEMSDMYTVTSQMLKVHKEDGVPV 218
 QY 181 ICQVEHPAVTGNLQTORRYLEVQYKPOVHIOMTYPLQGLTREGALLETCEAIGKPOPVAV 240
 DB 219 ICQVEHPAVTGNLQTORRYLEVQYKPOVHIOMTYPLQGLTREGALLETCEAIGKPOPVAV 278
 QY 241 TWRVRDDEMPQHAIVLSGPNLFINNLTNDGTYRCESASNVGKAHSDMYLVYDPPPTIP 300
 DB 279 TWRVRDDEMPQHAIVLSGPNLFINNLTNDGTYRCESASNVGKAHSDMYLVYDPPPTIP 338
 QY 301 PPTTTTTTTTTTTTTTTTTTIDSRAGEEGSIRAVDH 336
 DB 339 PPTTTTTTTTTTTTTTTTTTIDSRAGEEGSIRAVDH 374
 RESULT 2
 AAY17830
 ID AAY17830 standard; Protein; 440 AA.
 XX
 AC AAY17830;
 XX
 DT 12-AUG-1999 (first entry)
 XX
 DE Human PRO355 protein sequence.
 XX
 KW Human: PRO protein; tumour necrosis factor family; TNF; cytokine;
 KW secreted protein; transmembrane protein; inflammation disorder.
 XX
 OS Homo sapiens.
 XX
 PN WO9928462-A2.
 XX
 PD 10-JUN-1999.
 XX
 PF 01-DEC-1998; 98WO-US25108.
 XX
 PR 25-FEB-1998; 98US-0075945.
 PR 03-DEC-1997; 97US-0067411.
 PR 11-DEC-1997; 97US-0069278.
 PR 11-DEC-1997; 97US-0069334.

PR 11-DEC-1997; 97US-0069335.
 PR 12-DEC-1997; 97US-0069425.
 PR 16-DEC-1997; 97US-0069694.
 PR 16-DEC-1997; 97US-0069696.
 PR 16-DEC-1997; 97US-0069702.
 PR 17-DEC-1997; 97US-0069870.
 PR 17-DEC-1997; 97US-0069873.
 PR 18-DEC-1997; 97US-0069817.
 PR 05-JAN-1998; 98US-0070440.
 PR 09-FEB-1998; 98US-0074086.
 PR 09-FEB-1998; 98US-0074092.
 PA (GETH) GENENTECH INC.
 PI Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;
 PI Yuan J;
 XX
 XX WPI; 1999-371118/31.
 DR N-PSDB; AAX80055.
 PT Nucleic acids encoding PRO secreted and transmembrane proteins
 PS Claim 12; Fig 27; 123pp; English.
 CC The present invention describes nucleic acids encoding PRO secreted and
 CC transmembrane proteins used therapeutically. The PRO proteins have
 CC cytostatic, anti-inflammatory, anti-proliferative and immunosuppressive
 CC activity. The proteins and polynucleotides can be used in therapy,
 CC identification of homologues, raising antibodies and design of probes
 CC and primers. They can be used in a range of diseases related to proteins
 CC that they have homology with, e.g. a PRO protein having homology to
 CC complement proteins may be used in inflammatory responses.
 CC
 SO Sequence 440 AA;
 Query Match 100.0%; Score 1761; DB 20; Length 440;
 Best Local Similarity 100.0%; Pred. No. 2.1e-122;
 Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 IPFGDGNLFTKQVTVIEGEVATISCOVNSSDSVIQLNPNKQTIYFRDPRPKDSRFQ 60
 DB 37 IPFGDGNLFTKQVTVIEGEVATISCOVNSSDSVIQLNPNKQTIYFRDPRPKDSRFQ 96
 QY 61 LNFSSSELKVSLLNWSISDEGRYFCOLYDPPQESTYTTTVLVPPRNLMIDIOKDTAVE 120
 DB 97 LNFSSSELKVSLLNWSISDEGRYFCOLYDPPQESTYTTTVLVPPRNLMIDIOKDTAVE 156
 QY 121 GEEIEVNCSTAMASKPATTTIMFKGNTLKGKSEVEEMSDMYTVTSQMLKVHKEDGVPV 180
 DB 157 GEEIEVNCSTAMASKPATTTIMFKGNTLKGKSEVEEMSDMYTVTSQMLKVHKEDGVPV 216
 QY 181 ICQVEHPAVTGNLQTORRYLEVQYKPOVHIOMTYPLQGLTREGALLETCEAIGKPOPVAV 240
 DB 217 ICQVEHPAVTGNLQTORRYLEVQYKPOVHIOMTYPLQGLTREGALLETCEAIGKPOPVAV 276
 QY 241 TWRVRDDEMPQHAIVLSGPNLFINNLTNDGTYRCESASNVGKAHSDMYLVYDPPPTIP 300
 DB 277 TWRVRDDEMPQHAIVLSGPNLFINNLTNDGTYRCESASNVGKAHSDMYLVYDPPPTIP 336
 QY 301 PPTTTTTTTTTTTTTTTTTTIDSRAGEEGSIRAVDH 336
 DB 337 PPTTTTTTTTTTTTTTTTTTIDSRAGEEGSIRAVDH 372
 RESULT 3
 AAB01321
 ID AAB01321 standard; Protein; 440 AA.
 XX
 AC AAB01321;
 XX
 DT 25-SEP-2000 (first entry)
 XX
 DE Human PRO355 polypeptide.

XX PRO; membrane bound protein; secreted protein; PRO357; PRO327;
 KW PRO343; PRO715; PRO323; PRO299; PRO344; PRO347;
 KW PRO355; PRO353; PRO361; PRO365; transmembrane polypeptide;
 KM antibody; screening; detection; inhibition; probe; primer; human.
 XX
 OS Homo sapiens.
 XX
 PH Key
 FT Peptide
 FT 1..36
 FT Location/Qualifiers
 FT 9..15 Signal peptide
 FT /note= "N-myristoylation site"
 FT 65..69
 FT /note= "N-glycosylation site"
 FT 99..103
 FT /note= "N-glycosylation site"
 FT 111..115
 FT /note= "N-glycosylation site"
 FT 163..167
 FT /note= "N-glycosylation site"
 FT 227..233
 FT /note= "N-myristoylation site"
 FT 233..240
 FT /note= "tyrosine kinase phosphorylation site"
 FT 302..306
 FT /note= "N-glycosylation site"
 FT 306..310
 FT /note= "N-glycosylation site"
 FT 307..313
 FT /note= "N-myristoylation site"
 FT 319..328
 FT /note= "N-myristoylation site"
 FT 365..371
 FT /note= "tyrosine kinase phosphorylation site"
 FT 372..393
 FT /label= Transmembrane domain
 FT 376..382
 FT /note= "N-myristoylation site"
 FT 402..408
 FT /note= "N-myristoylation site"
 FT 411..417
 FT /note= "N-myristoylation site"
 FT 427..433
 FT /note= "N-myristoylation site"
 FT 428..432
 FT /note= "N-myristoylation site"
 FT 430..434
 FT /note= "N-glycosylation site"
 FT
 XX
 PN WO200032776-A2.
 XX
 PD 08-JUN-2000.
 XX
 PE 01-DEC-1999; 99WO-US28301.
 XX
 PR 01-DEC-1998; 98WO-US25108.
 PR 16-DEC-1998; 98US-0112850.
 PR 22-DEC-1998; 98US-0113296.
 XX
 PA (GETH) GENENTECH INC.
 PI Baker KP, Botstein D, Eaton DL, Ferrara N, Fliveroff E;
 PI Gerltsen ME, Goddard A, Godowski PJ, Grimaldi CU, Gurney AL;
 PI Hillen KJ, Kijavain IJ, Napier MA, Roy MA, Tumas D, Wood WI;
 XX
 DR WPI: 2000-412324/35.
 DR N-PSDB: AAA49563.
 XX
 PT New human nucleic acids encoding secreted and transmembrane
 PT polypeptides, designated as PRO polypeptides, useful as pharmaceutical
 PT and diagnostic agents
 XX

PS Claim 12; Fig 24; 187bp; English.
 XX
 XX New human nucleic acids encoding secreted and transmembrane
 CC polypeptides which are designated as PRO polypeptides are described
 CC The membrane-bound proteins have various industrial applications.
 CC Including as pharmaceutical and diagnostic agents. The membrane-bound
 CC proteins can also be employed for screening of potential peptide or
 CC small molecule inhibitors of the relevant receptor/ligand interaction.
 CC Anti-PRO antibodies are useful for the affinity purification of PRO
 CC from recombinant cell culture or natural sources.
 XX
 SO Sequence 440 AA:
 Query Match 100.0%; Score 1761; DB 21; Length 440;
 Best Local Similarity 100.0%; Pred. No. 2,1e-122;
 Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 IPFGDGNLFTKQVYTYEGVATISQVKNKSDSVIOLLNPNQTYFRFRPLKDSRFQ 60
 DB 37 IPFGDGNLFTKQVYTYEGVATISQVKNKSDSVIOLLNPNQTYFRFRPLKDSRFQ 96
 QY 61 LNFPSSELKVSILTNVSIISDEGRFCOLYNDPOESYTTITVLVPPNLMIDIOKTRAVE 120
 DB 97 LNFPSSELKVSILTNVSIISDEGRFCOLYNDPOESYTTITVLVPPNLMIDIOKTRAVE 156
 QY 121 GEEIEVNCSTAMASKPATITIMFKGNTLKGKSEVEMSDMYTYSQMLKVHKEDGVPV 180
 DB 157 GEEIEVNCSTAMASKPATITIMFKGNTLKGKSEVEMSDMYTYSQMLKVHKEDGVPV 216
 QY 181 ICGVENPAVGNLQTOYRYLEVQYKPOVNIQMTYPLQGLTREGALETCAIGKPOVMV 240
 DB 217 ICGVENPAVGNLQTOYRYLEVQYKPOVNIQMTYPLQGLTREGALETCAIGKPOVMV 276
 QY 241 TWVRVDDEMPQHAVLSCPNLFINNLTNGTYRCEASNIVGKAHSDYMLVYVDPPTIP 300
 DB 277 TWVRVDDEMPQHAVLSCPNLFINNLTNGTYRCEASNIVGKAHSDYMLVYVDPPTIP 336
 QY 301 PPTTTTTTTTTTTTTTTTTTSDSRAGEGSIKRAVDH 336
 DB 337 PPTTTTTTTTTTTTTTTTTTSDSRAGEGSIKRAVDH 372
 RESULT 4
 AAU29040
 ID AAU29040 standard; Protein; 440 AA.
 XX
 AC AAU29040:
 XX
 DT 18-DEC-2001 (first entry)
 XX
 DE Human PRO polypeptide sequence #17.
 XX
 KW PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
 KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
 KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
 KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
 OS Homo sapiens.
 XX
 PN WO200168848-A2.
 XX
 PD 20-SEP-2001.
 XX
 PE 28-FEB-2001; 2001WO-US06520.
 XX
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 03-MAR-2000; 2000US-187202P.
 PR 06-MAR-2000; 2000US-186968P.
 PR 14-MAR-2000; 2000US-189320P.
 PR 14-MAR-2000; 2000US-189328P.
 PR 15-MAR-2000; 2000WO-US06884.
 PR 21-MAR-2000; 2000US-190828P.

PR 21-MAR-2000; 2000US-191007P.
 PR 21-MAR-2000; 2000US-191048P.
 PR 21-MAR-2000; 2000US-191314P.
 PR 28-MAR-2000; 2000US-192655P.
 PR 29-MAR-2000; 2000US-193032P.
 PR 29-MAR-2000; 2000US-193053P.
 PR 30-MAR-2000; 2000OWO-US08439.
 PR 04-APR-2000; 2000US-194449P.
 PR 04-APR-2000; 2000US-194647P.
 PR 11-APR-2000; 2000US-195975P.
 PR 11-APR-2000; 2000US-196000P.
 PR 11-APR-2000; 2000US-196187P.
 PR 11-APR-2000; 2000US-196590P.
 PR 11-APR-2000; 2000US-196820P.
 PR 18-APR-2000; 2000US-198121P.
 PR 18-APR-2000; 2000US-198585P.
 PR 25-APR-2000; 2000US-199397P.
 PR 25-APR-2000; 2000US-199550P.
 PR 25-APR-2000; 2000US-199654P.
 PR 03-MAY-2000; 2000US-201516P.
 PR 17-MAY-2000; 2000OWO-US13705.
 PR 22-MAY-2000; 2000OWO-US14042.
 PR 30-MAY-2000; 2000OWO-US14941.
 PR 02-JUN-2000; 2000OWO-US15264.
 PR 05-JUN-2000; 2000US-209832P.
 PR 28-JUL-2000; 2000OWO-US20710.
 PR 22-AUG-2000; 2000US-0644848.
 PR 24-AUG-2000; 2000OWO-US23328.
 PR 08-NOV-2000; 2000OWO-US30952.
 PR 01-DEC-2000; 2000OWO-US32678.
 PR 20-DEC-2000; 2000OWO-US34956.
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
 PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
 DR WPI; 2001-602746/68.
 XX N-PSDB; AAS45941.
 PT Novel nucleic acids encoding PRO polypeptides, used to diagnose the
 PT presence of tumours, such as prostate and breast tumours, in mammals and
 PT to screen for modulators of the compounds -
 XX
 PS Claim 11: Fig 34; 774pp: English.
 XX
 CC Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.
 CC The PRO polypeptides and their associated nucleic acids can be used to
 CC detect the presence of a tumour in a mammal by comparing the level of
 CC expression of a PRO polypeptide in a test sample of cells from the animal
 CC and a control sample of normal cells, whereby a higher level of
 CC expression in the test sample indicates the presence of a tumour in the
 CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
 CC and rabbits but are preferably human. The polypeptides can be used to
 CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
 CC when contacted with it. A specific polypeptide can be used to stimulate
 CC the proliferation or differentiation of chondrocyte cells. The PRO
 CC proteins can be used to determine the presence of tumours and also
 CC susceptibility to tumour development, particularly adrenal, lung, colon,
 CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
 CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
 CC can be used for genetic analysis of individuals with genetic disorders.
 XX
 XX Sequence 440 AA:

Query Match 100.0%; Score 1761; DB 22; Length 440;
 Best Local Similarity 100.0%; Pred. No. 2.1e-122;
 Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPGGDSQNLFTKDVYIEGVATISQVNSKSDSVIQLNPNKQTIYFRFRPLKKSRFQ 60
 DB 37 IPGGDSQNLFTKDVYIEGVATISQVNSKSDSVIQLNPNKQTIYFRFRPLKKSRFQ 96

QY 61 LNFSSSELKVSLTNWSISDEGRYFCOLYTDPPQESYTTITVLPVPRNLMIDIQKTAVE 120
 DB 97 LNFSSSELKVSLTNWSISDEGRYFCOLYTDPPQESYTTITVLPVPRNLMIDIQKTAVE 156
 QY 121 GEEIEVNCITAMASKPATITIRFKGNTELKGSKEVEEWSMDATVTYSQMLKVKHKEDGCVV 180
 DB 157 GEEIEVNCITAMASKPATITIRFKGNTELKGSKEVEEWSMDATVTYSQMLKVKHKEDGCVV 216
 QY 181 ICQVEHPAVTGNLOTQRYLEVOYKPOVHIQMTYPLQSLTRFGDALLETCEAIGKPOPVV 240
 DB 217 ICQVEHPAVTGNLOTQRYLEVOYKPOVHIQMTYPLQSLTRFGDALLETCEAIGKPOPVV 276
 QY 241 TTVWRVDEMPQHAVALSGPNLFNNLNKTDNGYRCESASNTVGRKASDYMLYVDDPTTIP 300
 DB 277 TTVWRVDEMPQHAVALSGPNLFNNLNKTDNGYRCESASNTVGRKASDYMLYVDDPTTIP 336
 QY 301 PPTTTTTTTTTTTTTTTTTTTSDSRAGEGSTRAYDH 336
 DB 337 PPTTTTTTTTTTTTTTTTTTTSDSRAGEGSTRAYDH 372

RESULT 5

AAB25619
 ID AAB25619 standard; Protein; 442 AA.

XX AAB25619;

DT 21-NOV-2000 (first entry)

DE Protein encoded by human secreted protein gene #11.

XX Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic;
 KW antirheumatic, dermatological; antiproliferative; antiarteriosclerotic;
 KW anticancer; vulnerrary; antiviral; antibacterial; antifungal;
 KW immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;
 KW multiple sclerosis; inflammatory disorder; inflammatory bowel disease;
 KW Crohn's disease; nephritis; hyperproliferative disorder;
 KW cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;
 KW melanoma; lymphoma; wound healing; human.

XX Homo sapiens.

XX WO200029435-A1.

XX 25-MAY-2000.

PF 27-OCT-1999; 99WO-US25031.

PR 28-OCT-1998; 98US-0105971.

PA (HUMA-) HUMAN GENOME SCI INC.

PI N1 J. Ruben SM, Olsen HS, Young PE, Kenny JT, Moore PA, Wei Y;
 PI Greene JM;

DR WPI; 2000-387742/33.

PT Isolated nucleic acid molecules encoding human secreted proteins are
 PT used for the prevention, amelioration and treatment of autoimmune,
 PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,
 PT wounds, and infectious diseases -

PS Disclosure; Page 182-183; 803pp: English.

XX The present invention relates to 12 secreted human proteins and the
 CC nucleotide sequences encoding them. The polynucleotide sequences given
 CC in AAB25619-AAB25623 encode the 12 secreted protein sequences given in
 CC AAB25576-B25593. The human secreted proteins have various activities
 CC dependent on the tissues in which they are expressed. Examples of the
 CC activities of the proteins include: immunosuppressant;
 CC anti-inflammatory; antiarthritic; antirheumatic, dermatological;
 CC antiproliferative; antiarteriosclerotic; anticancer; vulnerrary;
 CC antiviral; antibacterial; and antifungal activity. The proteins,

CC polypeptides, agonists and antagonists may be used to treat prevent
 CC and/or diagnose various disease, disorders and conditions examples of
 CC which include: immune disorders e.g. Addison's disease, rheumatoid
 CC arthritis, dermatitis, and multiple sclerosis; inflammatory disorders
 CC e.g. inflammatory bowel disease, Crohn's disease and nephritis;
 CC hyperproliferative disorders such as paraproctelma and purpura;
 CC cardiovascular disorders e.g. coronary arteriosclerosis and myocarditis;
 CC cancer e.g. melanoma and lymphoma. The proteins and polynucleotide
 CC sequences may also be used in wound healing and the treatment of
 CC infectious diseases. The human secreted protein gene #11 and protein
 CC sequences are represented in sequences AAA80616 and AAB25586. Sequences
 CC AAA80677-A80682 represent genes related to the secreted protein gene#11.
 XX
 SQ Sequence 442 AA:
 Query Match 100.0%; Score 1761; DB 21: Length 442;
 Best Local Similarity 100.0%; Pred. No. 2,1e-122;
 Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 IPTGDCQLFTKDVIVIEGEVATISCVNKSDDSVIQLNPNRQTYFRDPRPKDSRFQ 60
 DB 39 IPTGDCQNLFTKDVIVIEGEVATISCVNKSDDSVIQLNPNRQTYFRDPRPKDSRFQ 98
 QY 61 LNFSSSELKSVLTNYSIDEGRYFCQLYTDPPQESYTTTVLVPPRNLMIDIQKTAVE 120
 DB 99 LNFSSSELKSVLTNYSIDEGRYFCQLYTDPPQESYTTTVLVPPRNLMIDIQKTAVE 158
 QY 121 GEEIENCTAMASKPATTTIRMFKNTELKGSSEVEMSDMYTTSOLMLKVHKEDGVPY 180
 DB 159 GEEIENCTAMASKPATTTIRMFKNTELKGSSEVEMSDMYTTSOLMLKVHKEDGVPY 218
 QY 181 ICQVHPAVTGNLQTOYRLEVQYKQVHIQMTYPLQGLTREGDALELTCEAIGKPPQVMY 240
 DB 219 ICQVHPAVTGNLQTOYRLEVQYKQVHIQMTYPLQGLTREGDALELTCEAIGKPPQVMY 278
 QY 241 TWWRVDEMPQAHVLSGPNLFINLNKTDNGYTRCEASNYGKAHSDYMLVYVDPPTTIP 300
 DB 279 TWWRVDEMPQAHVLSGPNLFINLNKTDNGYTRCEASNYGKAHSDYMLVYVDPPTTIP 338
 QY 301 PPTTTTTTTTTTTTTLTITITDSRAGEGSIKRAVDH 336
 DB 339 PPTTTTTTTTTTTTTLTITITDSRAGEGSIKRAVDH 374
 RESULT 6
 AAY94341
 ID AAY94341 standard; Protein; 442 AA.
 XX
 AC AAY94341:
 XX
 DT 22-AUG-2000 (first entry)
 XX
 DE Human cell surface receptor protein #8.
 XX
 XX Human; HCSRNP; cytoskeletal; antiarthritic; antirheumatic; antistimatic;
 KW Immunosuppressive; antiarteriosclerotic; antibacterial; antiparasitic;
 KW neuroprotective; nocrotropic; anticonvulsant; cancer; leukaemia;
 KW melanoma; rheumatoid arthritis; asthma; atherosclerosis; akathesia;
 KW Alzheimer's diseases; multiple sclerosis; epilepsy.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..44
 FT Protein /label= Signal_peptide
 FT Protein 45..442
 FT Protein /label= HCSRNP-8
 FT Protein 57..126
 FT Protein /label= Immunoglobulin_domain
 FT Protein 159..222
 FT Protein /label= Immunoglobulin_domain
 FT Protein 260..315
 FT Protein /label= Immunoglobulin_domain

FT Domain 375..394
 FT /label= Transmembrane_domain
 FT Region 53
 FT /note= "potential phosphorylation site"
 FT Region 67
 FT /note= "potential glycosylation site"
 FT Region 101
 FT /note= "potential glycosylation site"
 FT Region 103
 FT /note= "potential phosphorylation site"
 FT Region 113
 FT /note= "potential glycosylation site"
 FT Region 115
 FT /note= "potential phosphorylation site"
 FT Region 155
 FT /note= "potential phosphorylation site"
 FT Region 165
 FT /note= "potential glycosylation site"
 FT Region 176
 FT /note= "potential phosphorylation site"
 FT Region 190
 FT /note= "potential phosphorylation site"
 FT Region 233
 FT /note= "potential phosphorylation site"
 FT Region 241
 FT /note= "potential phosphorylation site"
 FT Region 304
 FT /note= "potential glycosylation site"
 FT Region 308
 FT /note= "potential glycosylation site"
 FT Region 310
 FT /note= "potential phosphorylation site"
 FT Region 329
 FT /note= "potential phosphorylation site"
 FT Region 368
 FT /note= "potential phosphorylation site"
 FT Region 432
 FT /note= "potential glycosylation site"
 FT Region 432
 FT /note= "potential glycosylation site"
 PN MO200028032-A2.
 XX
 PD 18-MAY-2000.
 XX
 PE 12-NOV-1999; 99WO-US26742.
 XX
 PR 12-NOV-1998; 98US-0191280.
 PR 07-DEC-1998; 98US-0206647.
 PR 08-MAR-1999; 99US-0123404.
 XX
 PA (INCY-) INCYTE PHARM INC.
 XX
 PI Tang YT, Corley NC, Guegler KJ, Yue H, Baughn MR, Lal P;
 PI Hillman JL, Bandman O, Azimzal Y, Au-Young J;
 DR WPI: 2000-376546/32.
 DR N-PSDB: AAA27051.
 XX
 PT New human cell surface receptor protein and polynucleotide useful for
 PT diagnosis, prevention and treatment of cancer, immune disorders,
 PT infection and neuronal disorders -
 XX
 PS Claim 1: Page 81-82; 97pp; English.
 XX
 CC The present sequence is a novel human cell surface receptor protein
 CC (HCSRNP) designated HCSRNP-8. The nucleotide sequence was identified in
 CC Incyte Clone 312256 from the cDNA library LUNGNOT02, which was made from
 CC RNA isolated from lung tissue. A number of incyte clones were used to
 CC assemble the consensus sequence. BLAST analysis showed that the sequence
 CC is homologous to immunosuppressive protein B12 g3779242. HCSRNP and its
 CC antagonist are useful for preventing or treating disorders associated
 CC with decreased or increased expression or activity of HCSRNP. Such
 CC disorders include cancers such as leukaemia and melanoma, immune
 CC disorders such as rheumatoid arthritis, asthma and atherosclerosis,

CC bacterial and parasitic infections and neuronal disorders such as
 CC akathesia, Alzheimer's disease, multiple sclerosis and epilepsy.
 CC Polynucleotides encoding HSCRPs may be used as hybridisation probes to
 CC diagnose these conditions. Anti-HCSR antibody may be used as
 CC antagonists, as a targeting or delivery mechanism for binding
 CC pharmaceutical agents into contact with cells or tissues expressing
 CC HCSR and for diagnosis of HCSR-related disorders. HCSR and its
 CC catalytic or immunogenic fragments are useful for drug screening using
 CC libraries of compounds.

XX Sequence 442 AA;

Query Match 100.0%; Score 1761; DB 21; Length 442;
 Best Local Similarity 100.0%; Pred. No. 2.1e-122;

Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPTGDSGNLFTKDVYIEGEVATISQVNSDSDSVIQLNPNRQTIYFRDRPLKDSRFQ 60
 DB 39 IPTGDSGNLFTKDVYIEGEVATISQVNSDSDSVIQLNPNRQTIYFRDRPLKDSRFQ 98
 QY 61 LNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESTYTTIVLVPRNLMDIDOKTAVE 120
 DB 99 LNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESTYTTIVLVPRNLMDIDOKTAVE 158
 QY 121 GEEIEVNCSTAMASKPATITIMFKGNTELKGSVEEESDMYTVTSQMLKVKHKEDGVPV 180
 DB 159 GEEIEVNCSTAMASKPATITIMFKGNTELKGSVEEESDMYTVTSQMLKVKHKEDGVPV 218
 QY 181 ICQVEHPAVTGNLQOTORYLEOVYKRPVNIOMTYPLQGLTRGDALELTCEAIKGPQVNV 240
 DB 219 ICQVEHPAVTGNLQOTORYLEOVYKRPVNIOMTYPLQGLTRGDALELTCEAIKGPQVNV 278
 QY 241 TWRVVDDEMPQHAVLSGPNLFINNLTNDGTGRCEASNIYGAHSDYMLVYVDPPTTIP 300
 DB 279 TWRVVDDEMPQHAVLSGPNLFINNLTNDGTGRCEASNIYGAHSDYMLVYVDPPTTIP 338
 QY 301 PPTTTTITTTTTTTTTITITITDSRAGEGSTRAVDH 336
 DB 339 PPTTTTITTTTTTTTTITITITDSRAGEGSTRAVDH 374

RESULT 7

AA45092 ID AA45092 standard; Protein: 442 AA.

XX AA45092;

XX 31-MAY-2000 (first entry)

DE Human lymphoid derived dendritic cell adhesion molecule.

XX Lymphoid derived dendritic cell adhesion molecule; LDCAM; human; B7-1;
 KW B7-1; T cell proliferation; natural killer cell; NK; tumour cell;
 KW biological activity; quality control reagent; treatment; inflammation;
 KW immune system disorder; autoimmune; viral infection; infectious disease;
 KW organ transplant rejection; bone marrow; modulator; immune response.

XX Homo sapiens.

XX Key Location/Qualifiers

FT Domain 1..374 /label= Extracellular_domain

FT Peptide 1..38 /label= Leader_peptide

FT Protein 39..442 /label= Mature_human_LDCAM_polypeptide

FT Modified-site 67..69 /note= "N-Glycosylation site"

FT Modified-site 101..103 /note= "N-Glycosylation site"

FT Modified-site 113..115 /note= "N-Glycosylation site"

FT Modified-site 165..167

FT /note= "N-Glycosylation site"
 FT Modified-site 304..306
 FT /note= "N-Glycosylation site"
 FT Modified-site 308..310
 FT /note= "N-Glycosylation site"
 FT Domain 375..395
 FT /label= Transmembrane_domain
 FT Domain 396..442
 FT /label= Cytoplasmic_domain

XX W0200008158-A2.

XX 17-FEB-2000.

XX 05-AUG-1999; 99WC-U517905.

XX 07-AUG-1998; 98US-0095672.

XX (IMMUNEX CORP.

XX Baum PR, Fanslow WC;

XX WPI, 2000-205712/18.

XX N-PSDB: AAZ50882.

XX Novel molecules designated LDCAM are capable of altering or modulating
 T cell function

XX Claim 7; Page 42-43; 44pp; English.

XX The present amino acid sequence is the human lymphoid derived dendritic
 CC cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic
 CC cells and displays homology to adhesion molecules, B7-1 and cytoplasmic
 CC region of B7-1. Human LDCAM is expressed in breast, retina, foetal
 CC liver, spleen and heart, lung, muscle, placenta, thyroid and lung
 CC carcinoma. LDCAM polypeptides interact with T cell surface molecules
 CC to alter signalling and inhibits T cell proliferation, bind to
 CC themselves and B7L-1, an LDCAM binding protein and increases natural
 CC killer (NK) cell populations. It may be used to measure the biological
 CC activity and as quality control reagents of LDCAM binding proteins.
 CC LDCAM may be used for treating disorders associated with malfunctioning
 CC of immune system, inflammation, autoimmune disorders, viral infected
 CC cells, infectious diseases and for killing tumour cells. They are also
 CC useful for prevention or reducing the effect of organ and bone marrow
 CC transplant rejection and for modulating T cell immune responses. LDCAM
 CC polypeptides may also be used as carriers for delivering agents attached
 CC to T cells or cells bearing B7L-1.

XX Sequence 442 AA;

Query Match 100.0%; Score 1761; DB 21; Length 442;

Best Local Similarity 100.0%; Pred. No. 2.1e-122;

Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPTGDSGNLFTKDVYIEGEVATISQVNSDSDSVIQLNPNRQTIYFRDRPLKDSRFQ 60
 DB 39 IPTGDSGNLFTKDVYIEGEVATISQVNSDSDSVIQLNPNRQTIYFRDRPLKDSRFQ 98
 QY 61 LNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESTYTTIVLVPRNLMDIDOKTAVE 120
 DB 99 LNFSSSELKVSILTNVSIISDEGRYFCOLYTDPPQESTYTTIVLVPRNLMDIDOKTAVE 158
 QY 121 GEEIEVNCSTAMASKPATITIMFKGNTELKGSVEEESDMYTVTSQMLKVKHKEDGVPV 180
 DB 159 GEEIEVNCSTAMASKPATITIMFKGNTELKGSVEEESDMYTVTSQMLKVKHKEDGVPV 218
 QY 181 ICQVEHPAVTGNLQOTORYLEOVYKRPVNIOMTYPLQGLTRGDALELTCEAIKGPQVNV 240
 DB 219 ICQVEHPAVTGNLQOTORYLEOVYKRPVNIOMTYPLQGLTRGDALELTCEAIKGPQVNV 278
 QY 241 TWRVVDDEMPQHAVLSGPNLFINNLTNDGTGRCEASNIYGAHSDYMLVYVDPPTTIP 300
 DB 279 TWRVVDDEMPQHAVLSGPNLFINNLTNDGTGRCEASNIYGAHSDYMLVYVDPPTTIP 338

PS Claim 7; Page 46-47; 44pp; English.

XX The present amino acid sequence is the mouse lymphoid derived dendritic

CC cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic

CC cells and displays homology to adhesion molecules, B7-1 and cytoplasmic

CC region of B7-L1. Mouse LDCAM is found on whole embryo, testes, triple

CC negative cells murine splenic and lymph node CD8+, 549.1 and dendritic

CC cells. LDCAM polypeptides interact with T cell surface molecules

CC to alter signalling and inhibits T cell proliferation, bind to

CC themselves and B7L-1, an LDCAM binding protein and increases natural

CC killer (NK) cell populations. It may be used to measure the biological

CC activity and as quality control reagents of LDCAM binding proteins.

CC LDCAM may be used for treating disorders associated with malfunctioning

CC of immune system, inflammation, autoimmune disorders, viral infected

CC cells, infectious diseases and for killing tumour cells. They are also

CC useful for prevention or reducing the effect of organ and bone marrow

CC transplant rejection and for modulating T cell immune responses. LDCAM

CC polypeptides may also be used as carriers for delivering agents attached

CC to T cells or cells bearing B7L-1.

XX

XX Sequence 423 AA:

SQ

Query Match 98.9%; Score 1741; DB 21; Length 423;

Best Local Similarity 98.8%; Pred. No. 5.9e-121;

Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 IPTGDSGNLFTKDVTEIEGEVATISCOVNSDSVLIOLNPNRQTYFRDPRPKDSRFQ 60

DB 21 IPTGDSGNLFTKDVTEIEGEVATISCOVNSDSVLIOLNPNRQTYFRDPRPKDSRFQ 80

QY 61 LNFSSSELKVSLLTNVISISDEGRFCOLYTDPPQESTTTITVLVPRNLMIDIOKTAVE 120

DB 81 LNFSSSELKVSLLTNVISISDEGRFCOLYTDPPQESTTTITVLVPRNLMIDIOKTAVE 140

QY 121 GEEIEVNCSTAMASKPATITTFMFKGNTLKGKSEYEESMDYTVTSQMLKVHKEEDGVPV 180

DB 141 GEEIEVNCSTAMASKPATITTFMFKGNTLKGKSEYEESMDYTVTSQMLKVHKEEDGVPV 200

QY 181 ICQVEHNAVGNLQOTQRYLEVOYKRPQVHIQMTYPLQGLTREGDALELTCEAIKRPQVMV 240

DB 201 ICQVEHNAVGNLQOTQRYLEVOYKRPQVHIQMTYPLQGLTREGDALELTCEAIKRPQVMV 260

QY 241 TWRVVDDEMPQHAHVLSPNLFINNLTNDGTGRCEASNIVGRAHSDYMLVYVDPPTTIP 300

DB 261 TWRVVDDEMPQHAHVLSPNLFINNLTNDGTGRCEASNIVGRAHSDYMLVYVDPPTTIP 320

QY 301 PPTTTTTTTTTTTTTITITDSRAGEGSIKRAVDH 336

DB 321 PPTTTTTTTTTTTTTITITDSRAGEGSIKRAVDH 356

RESULT 10

AAB25586

ID AAB25586 standard; protein; 364 AA.

XX

XX AAB25586;

AC

XX

XX 21-NOV-2000 (first entry)

DE

XX Protein encoded by human secreted protein gene #11.

XX

XX Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic;

KW antihemetic; dermatological; antiproliferative; antiarteriosclerotic;

KW anticancer; vulnary; antiviral; antibacterial; antifungal;

KW immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;

KW multiple sclerosis; inflammatory disorder; inflammatory bowel disease;

KW Crohn's disease; nephritis; hyperproliferative disorder;

KW cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;

KW melanoma; lymphoma; wound healing; human.

XX

OS Homo sapiens.

XX

PN WO200029435-A1.

XX

PD 25-MAY-2000.

XX

XX 27-OCT-1999; 99MO-US25031.

PF

XX

XX 28-OCT-1998; 98US-0105971.

PR

XX (HUMA-) HUMAN GENOME SCI INC.

PA

XX N1 J. Ruben SM, Olsen HS, Young PE, Kenny JT, Moore PA, Wei Y;

PI Greene JM;

XX

XX WPI; 2000-387742/33.

DR N-PDB; AAA80616.

XX

XX

PT Isolated nucleic acid molecules encoding human secreted proteins are

PT used for the prevention, amelioration and treatment of autoimmune,

PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,

PT wounds, and infectious diseases -

XX

XX

PS Claim 1; Figure 28A-B; 803pp; English.

XX

CC The present invention relates to 12 secreted human proteins and the

CC nucleotide sequences encoding them. The polynucleotide sequences given

CC in AAA80606-A80623 encode the 12 secreted protein sequences given in

CC AAB25576-B25593. The human secreted proteins have various activities

CC dependent on the tissues in which they are expressed. Examples of the

CC activities of the proteins include: immunosuppressant;

CC anti-inflammatory; antiarthritic; antirheumatic; dermatological;

CC antiproliferative; antiarteriosclerotic; anticancer; vulnary;

CC antiviral; antibacterial; and antifungal activity. The proteins,

CC polypeptides, agonists and antagonists may be used to treat prevent

CC and/or diagnose various diseases, disorders and conditions examples of

CC which include: immune disorders e.g. Addison's disease, rheumatoid

CC arthritis, dermatitis, and multiple sclerosis; inflammatory disorders

CC e.g. inflammatory bowel disease, Crohn's disease and nephritis;

CC hyperproliferative disorders such as paraprothemia and purpura;

CC cardiovascular disorders e.g. coronary arteriosclerosis and myocarditis;

CC cancer e.g. melanoma and lymphoma. The proteins and polynucleotide

CC sequences may also be used in wound healing and the treatment of

CC infectious diseases. The human secreted protein gene #11 and protein

CC sequences are represented in sequences AAA80616 and AAB25586. Sequences

CC AAA80677-A80682 represent genes related to the secreted protein gene#11.

XX

SQ

Sequence 364 AA:

Query Match 96.8%; Score 1704; DB 21; Length 364;

Best Local Similarity 100.0%; Pred. No. 2.7e-118;

Matches 325; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPTGDSGNLFTKDVTEIEGEVATISCOVNSDSVLIOLNPNRQTYFRDPRPKDSRFQ 60

DB 39 IPTGDSGNLFTKDVTEIEGEVATISCOVNSDSVLIOLNPNRQTYFRDPRPKDSRFQ 98

QY 61 LNFSSSELKVSLLTNVISISDEGRFCOLYTDPPQESTTTITVLVPRNLMIDIOKTAVE 120

DB 99 LNFSSSELKVSLLTNVISISDEGRFCOLYTDPPQESTTTITVLVPRNLMIDIOKTAVE 158

QY 121 GEEIEVNCSTAMASKPATITTFMFKGNTLKGKSEYEESMDYTVTSQMLKVHKEEDGVPV 180

DB 159 GEEIEVNCSTAMASKPATITTFMFKGNTLKGKSEYEESMDYTVTSQMLKVHKEEDGVPV 218

QY 181 ICQVEHNAVGNLQOTQRYLEVOYKRPQVHIQMTYPLQGLTREGDALELTCEAIKRPQVMV 240

DB 219 ICQVEHNAVGNLQOTQRYLEVOYKRPQVHIQMTYPLQGLTREGDALELTCEAIKRPQVMV 278

QY 241 TWRVVDDEMPQHAHVLSPNLFINNLTNDGTGRCEASNIVGRAHSDYMLVYVDPPTTIP 300

DB 279 TWRVVDDEMPQHAHVLSPNLFINNLTNDGTGRCEASNIVGRAHSDYMLVYVDPPTTIP 338

QY 301 PPTTTTTTTTTTTTTITITDSRA 325

DB 339 PPTTTTTTTTTTTTTITITDSRA 363

RESULT 11
 AAB88427
 ID AAB88427 standard: Protein: 443 AA.
 XX AAB88427;
 XX
 DT 23-MAY-2001 (first entry)
 XX
 DE Human membrane or secretory protein clone PSEC0200.
 XX
 KW Human; secretory protein; membrane protein; vaccine; gene therapy;
 XX rheumatoid arthritis; diabetes.
 XX
 OS Homo sapiens.
 XX
 PN EP1067182-A2.
 XX
 PD 10-JAN-2001.
 XX
 PF 07-JUL-2000; 2000EP-0114090.
 XX
 PR 08-JUL-1999; 99JP-0194179.
 PR 11-JAN-2000; 2000JP-0118775.
 PR 02-MAY-2000; 2000JP-0183766.
 XX
 PA (HELI-) HELIX RES INST.
 XX
 PI Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;
 XX
 DR WPI; 2001-093989/11.
 DR N-PSDB; AAF93854.
 XX
 PT Nucleic acids encoding secretory proteins/membrane proteins, useful in
 PT gene therapy or as candidate target molecules in drug development -
 XX
 PS Claim 1: SEQ ID 222; 609pp + CD ROM; English.
 XX
 CC This invention relates to nucleic acid sequences AAF93744 - AAF93916
 CC which encode human secretory or membrane proteins represented by
 CC AAB88317 - AAB88419. Included in the invention are primers
 CC AAF93917 - AAF94295 and AAF62232 - AAF62235 which are used to isolate the
 CC cDNA sequences of the invention. The invention also includes methods for
 CC the production of antibodies directed against the proteins, and cDNA
 CC sequences, which can be used in vaccines. The polynucleotide sequences
 CC can be used in gene therapy. The polynucleotide sequences and the
 CC proteins they encode may be used in the prevention, treatment and
 CC diagnosis of diseases associated with inappropriate secretory
 CC protein/membrane protein expression. The nucleic acids and complementary
 CC sequences may also be used as DNA probes in diagnostic assays
 CC (e.g. polymerase chain reactions (PCR)) to detect and quantitate the
 CC presence of similar nucleic acid sequences in samples. They may also be
 CC used to study the expression and function of secretory proteins/membrane
 CC polypeptides and their role in metabolism. The polypeptides may be used
 CC as antigens in the production of antibodies against them and in assays to
 CC identify modulators (agonists and antagonists) of expression and
 CC activity. The antibodies and antagonists may also be used as therapeutic
 CC agents to down regulate expression and activity. The antibodies may also
 CC be used as diagnostic agents for detecting the presence of the
 CC polypeptides in samples (e.g. by enzyme linked immunosorbent assay
 CC (ELISA)). Examples of diseases which may be treated include rheumatoid
 CC arthritis and diabetes.
 CC
 SO Sequence 443 AA:
 Query Match 91.6%; Score 1612.5; DB 22: Length 443;
 Best Local Similarity 92.6%; Pred. No. 2.1e-111;
 Matches 312; Conservative 4; Mismatches 20; Indels 1; Gaps 1;

OY 61 LNFSSSELKVSLLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLIDIOKDTAVE 120
 DB 99 LNFSSSELKVSLLNVSISDEGRYFCQLYTDPQESYTTITVLVPPRNLIDIOKDTAVE 158
 OY 121 GEELEVNCSTAMASKPATTTIMFKGNTELKSKSEVEEMSDMTYTSQMLKLVHKEDDGPV 180
 DB 159 GEELEVNCSTAMASKPATTTIMFKGNTELKSKSEVEEMSDMTYTSQMLKLVHKEDDGPV 218
 OY 181 ICOVEHPAVTGNLOTORYLEVOYKPOVHIOMTYPLQGLTREGDALLETCEAIGKPOPVN 240
 DB 219 ICOVEHPAVTGNLOTORYLEVOYKPOVHIOMTYPLQGLTREGDALLETCEAIGKPOPVN 278
 OY 241 TWRVVDDEMPQHAVLSGNLFINLNKTDNGTYRCASNIYGAHSDYMLVYDPTTIP 300
 DB 279 TWRVVDDEMPQHAVLSGNLFINLNKTDNGTYRCASNIYGAHSDYMLVYDPTTIP 338
 OY 301 PPTTTTTTTTTTTTTT-LTITDSRAGEEGSIRAVDH 336
 DB 339 PAVHGLTQLPNSAEELDESDLSRAGEEGSIRAVDH 375
 RESULT 12
 AAY53028
 ID AAY53028 standard: Protein: 414 AA.
 XX
 AC AAY53028;
 XX
 DT 29-FEB-2000 (first entry)
 XX
 DE Human secreted protein clone cw1000_2 protein sequence SEQ ID NO:62.
 XX
 KW Human; secreted protein; nutritional; cytokine; cell proliferation;
 KW differentiation; immune stimulating; vaccine; suppression;
 KW haemopoiesis regulation; tissue growth; activin; inhibin;
 KW chemotactic; chemokine; haemostatic; thrombolytic; receptor;
 KW ligand; anti-inflammatory; cadherin; tumour invasion suppressor;
 KW tumour inhibition; gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN W09957132-A1.
 XX
 PD 11-NOV-1999.
 XX
 PF 07-MAY-1999; 99WC-US09970.
 XX
 PR 07-MAY-1998; 98US-0084564.
 PR 02-JUN-1998; 98US-0087645.
 PR 22-JUL-1998; 98US-0093712.
 PR 31-JUL-1998; 98US-0094935.
 PR 10-AUG-1998; 98US-0095880.
 PR 11-AUG-1998; 98US-0096068.
 PR 06-MAY-1999; 99US-0096068.
 XX
 PA (GENY) GENETICS INST INC.
 XX
 PI Jacobs K, McCoy JM, Lavallie ER, Collins-Racie LA, Evans C;
 PI Merberg D, Tracy M, Agostino MJ, Steinhilber RJ, Bowman MR;
 PI DIBlasio-Smith E, Widom A;
 DR WPI; 2000-052937/04.
 DR N-PSDB; AAZ33346.
 XX
 PT New polynucleotides encoding secreted human proteins, derived from
 PT adult placenta, adult retina, fetal brain, fetal
 XX
 PS Claim 71: Page 416-417; 492pp; English.
 XX
 CC The present invention describes new human secreted proteins which were
 CC isolated from adult placenta, adult retina, foetal brain, foetal kidney,
 CC adult blood, adult brain, adult thymoid, adult bladder, adult neural
 CC tissue, adult testes, and adult lymph node cDNA libraries. The human

KW tissue growth factor; immunomodulatory; cancer; leukaemia;
 KW nervous system disorder; arthritis; inflammation.
 OS Homo sapiens.
 XX MO200157190-A2.
 PM
 XX 09-AUG-2001.
 PD
 XX 05-FEB-2001; 2001MO-US04098.
 PF
 XX 03-FEB-2000; 2000US-0496914.
 PR 27-APR-2000; 2000US-0560875.
 PR 20-JUN-2000; 2000US-0598075.
 PR 19-JUL-2000; 2000US-0620325.
 PR 01-SEP-2000; 2000US-0654936.
 PR 15-SEP-2000; 2000US-0663561.
 PR 20-OCT-2000; 2000US-0693325.
 PR 30-NOV-2000; 2000US-0728422.
 XX
 XX (HYSE-) HYSEQ INC.
 PA
 XX Tang YT, Liu C, Dermanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;
 PI Zhao Q, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
 PI Xue AJ, Yang Y, Wejhrman T, Goodrich R;
 XX
 XX WPI: 2001-476283/51.
 DR N-PSDB; AAK51551.
 XX
 PT Nucleic acids encoding polypeptides with cytokine-like activities,
 PT useful in diagnosis and gene therapy -
 XX
 PS Claim 20; Page 3307-3308; 6221pp; English.
 XX
 CC The invention relates to polynucleotides (AAK51456-AAK53435) and the
 CC encoded polypeptides (AAW78323-AAW80302) that exhibit activity elating to
 CC cytokine, cell proliferation or cell differentiation or which may induce
 CC production of other cytokines in other cell populations. The
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
 CC peptide therapy. The polypeptides have various cytokine-like activities,
 CC e.g. stem cell growth factor activity, haematopoiesis regulating
 CC activity, tissue growth factor activity, immunomodulatory activity and
 CC activin/inhibin activity and may be useful in the diagnosis and/or
 CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
 CC inflammation.
 CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
 CC (AAW80020) are omitted as the relevant pages from the sequence listing
 CC were missing at the time of publication.
 CC
 XX
 SO Sequence 387 AA:
 35.7%; Score 629; DB 22; Length 387;
 Query Match Best Local Similarity 40.9%; Pred. No. 1.3e-38;
 Matches 124; Conservative 62; Mismatches 111; Indels 6; Gaps 3;
 4 GCGONLFTKDVYIEGEVATISCOVNSKSDSVIQLNPNRQTIYFRDRPLKDSRFQLN 63
 21 GAGGEGVGTENVAEGVAETICRLHQYGSIVIONPARQTLFFGFTALDERQLEE 80
 64 FSSSELSLVTVSISDEGRYFCOLYTRPQBSYTTIVLVPPRLMIDIQDTAVEGEE 123
 81 FSPRRIRILISARLEDEGGYFCOLYTEDTHQIATLVLAPEPNVEV-REQAAGEGE 139
 124 IEVNCYAMSKPATIRMKGTTELKSGSEVEMSDMYVTQSOLMKVHKEDGCVITIO 183
 140 VELSLCLVPSRPAATILRMTRDKRELKGVSSQENGVKVMVASTVRVRVDRKDDGITICE 199
 184 VEHPAVGTG--NLQTORYLEVQYKPOVNIQMTYPLQGLTREGDALELTCEAIKPPQVMT 241
 200 AQNALPSPCHSQTQVLYDVOYSPFARIHA--QAVVREGDVLVLTCAVNGPRNRQIR 256
 242 WVRVDEDMQAHVLSGPNLFINNLTNDGTGRCSEASNVGAHSDYMLVYVDPPTTIPP 301
 | | : : : : | | : : | | | | | | | | | | : : : : | | : : : : |

DB 257 WNRGNESLPERAEVAGETLLPEGLVSADNGTYTCEASNRKHARALYLVVYDPGAVBA 316
 OY 302 PTT 304
 1;
 DB 317 QTS 319
 RESULT 15
 AAY33741
 ID AAY33741 standard; Protein; 444 AA.
 XX
 AC AAY33741;
 XX
 DT 09-NOV-1999 (first entry)
 XX
 DE Beta-secretase.
 XX
 KW Beta-secretase; beta-amyloid protein precursor; APP; Down's syndrome;
 KW Alzheimer's disease.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..23
 FT /label= Signal_peptide 24..444
 FT Protein /label= beta-secretase 377..399
 FT Region /note= "Putative transmembrane region"
 FT
 PN US5942400-A.
 XX
 PD 24-AUG-1999.
 XX
 PE 07-JUN-1996; 96US-0659984.
 XX
 PR 07-JUN-1996; 96US-0659984.
 PR 07-JUN-1995; 95US-0480498.
 PR 07-JUN-1995; 95US-0485152.
 XX
 PA (ELAN-) ELAN PHARM INC.
 XX
 PI Anderson JP, Jacobson-Croak KL, Sinha S;
 DR WPI: 1999-517417/43.
 DR N-PSDB; AA206640.
 XX
 PT A method for detecting human beta-secretase cleavage of polypeptides
 PT useful for identifying beta-secretase inhibitors
 XX
 PS Examples; Fig 1; 43pp; English.
 XX
 CC This sequence is the human beta-secretase enzyme polynucleotide.
 CC Beta-secretase is capable of cleaving the beta-amyloid precursor protein
 CC (APP) (AAY33742/swedish mutant APP). This enzyme is used in a method for
 CC detecting human beta-secretase cleavage of polypeptides and for
 CC identifying beta-secretase inhibitors. The protein has a deduced
 CC molecular weight of 49 kD, although this is without glycosylation and
 CC the expected molecular weight is therefore higher. Inhibition of
 CC beta-secretase activity would be useful for chemical modelling of a
 CC critical event in the pathology of Alzheimer's disease. Inhibitors of
 CC beta-secretase would be useful for the prevention and treatment of
 CC Alzheimer's disease and Down's syndrome.
 CC
 XX
 SO Sequence 444 AA:
 35.4%; Score 623.5; DB 20; Length 444;
 Query Match Best Local Similarity 39.0%; Pred. No. 4e-38;
 Matches 137; Conservative 66; Mismatches 121; Indels 27; Gaps 6;
 6 GONLFTKDVYIEGEVATISCOVNSKSDSVIQLNPNRQTIYFRDRPLKDSRFQLNS 65
 33 GQPLTQNTVVEGTAITLCRVQDNDNTSLQSNPAQOTLYFDDKKALRDNRIELVRAS 92
 | | : : : : | | : : | | | | | | | | | | : : : : | | : : : : |

QY 66 SSELKVSILNVSISDEGRYFCQLYTDPPESEYTTITVLVPPRNLMIDIQKTFAVEGEEIE 125
Db 93 WHELSISVSDVSLSDGQYCSLFTMPVKTSKAVLTVIGVPEKPOISGFSSPVMEGDIHQ 152
QY 126 VNCJAMASKRPATITRMFKGNTLKGKSEVEEMS---DMYTVTSQMLKVKHKEDDGVPIIC 182
Db 153 LTCKTSGSKPAAIDIRMFKNKDKETIDVKKYLKEEDANKRTFTVSSSTLDFRVDSDDGVAVIC 212
QY 183 QVEHPAVTGNLQ-TORYLEYQYKPOVHIQMTYPLQGLTREGDALELTCEAIGKQOPVMT 241
Db 213 RVDEHSINATPPQYAMQVLEIHYTPSVKI---IPSTPPQEGOPILITCESKGPPEPVL 269
QY 242 WVRVDEM--POHAYLSGPNLFINNLKNTDNGTYRCEASNI VGRKASDYMILYVDPPTTI 299
Db 270 WTKDGGELPDPDRMVVSGRELNIILFNKKTNDNGTYRCEATNTIGOSSAEYVLIYHDPNTL 329
QY 300 PPPTTTTTTTTTTTTTLTIT-----DSRAGEEGSIRAVDH 336
Db 330 LPTTIIPSLTTATVTTVAITTSPTTSATTSIRDPNALAGONGP---DH 376

Search completed: November 20, 2002, 07:37:56
Job time : 65.5 secs

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OM protein - protein search, using sw model

Run on: November 20, 2002, 07:34:43 ; Search time 28.5 Seconds
(without alignments)
2429.187 Million cell updates/sec

Title: US-09-778-187b-2_COPY_39_374

Perfect score: 1761
Sequence: 1 IPTGDSQNLFTKDVIVIEGE.....LTIIDSRAGEGSRIVADH 336

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

SPTREMBL_21:*

- 1: sp_archaea:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_phage:*
- 10: sp_plant:*
- 11: sp_rodent:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*
- 15: sp_virus:*
- 16: sp_bacteriap:*
- 17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1758	99.8	442	4	Q9BY67
2	1741	98.9	445	11	Q8R4L1
3	1725.5	98.0	456	11	Q8R5M8
4	1725.5	98.0	494	11	Q9CRY3
5	1529	86.8	336	11	Q9D6E7
6	1180	67.0	295	11	Q9D2H8
7	1157.5	65.7	306	11	Q9QYL4
8	1137	64.6	295	11	Q9QYL6
9	1048	59.5	289	11	Q9QYL5
10	1024.5	58.2	278	11	Q9QYL3
11	622	35.3	388	11	Q8R464
12	609	34.6	381	4	Q9Y4A4
13	482.5	27.4	396	11	Q99N28
14	469.5	26.7	432	4	Q9UJPI
15	301	17.1	549	11	Q9D006
16	298	16.9	549	11	Q9JLB9

17	292	16.6	549	4	Q9NQS3	Q9nqs3 homo sapien
18	277.5	15.8	438	11	Q9JLB7	Q9jlb7 mus musculu
19	277.5	15.8	510	11	Q9JLB8	Q9jlb8 mus musculu
20	263.5	15.0	5198	5	Q76518	Q76518 caenorhabdi
21	250	14.2	439	13	O57349	O57349 gallus gall
22	248	14.1	407	4	Q9Y412	Q9y412 homo sapien
23	243	13.8	725	13	Q73633	Q73633 xenopus lae
24	243	13.8	1482	5	Q9V4Y0	Q9v4y0 drosophila
25	235	13.3	393	4	Q95727	Q95727 homo sapien
26	227	12.9	4162	13	Q98918	Q98918 gallus gall
27	224.5	12.7	605	4	Q96J84	Q96j84 homo sapien
28	223.5	12.7	7962	4	Q10465	Q10465 homo sapien
29	223.5	12.7	34350	4	Q8W422	Q8w422 homo sapien
30	223	12.7	725	13	Q73634	Q73634 xenopus lae
31	222	12.6	467	11	Q91V79	Q91v79 mus musculu
32	222	12.6	1380	4	Q9HCK4	Q9hck4 homo sapien
33	222	12.6	1675	13	Q98SM4	Q98sm4 brachydanto
34	221	12.5	344	11	Q99PJ0	Q99pj0 mus musculu
35	220	12.5	344	4	Q9E121	Q9e121 homo sapien
36	220	12.5	449	4	Q9UEI6	Q9uei6 homo sapien
37	219	12.4	344	13	Q9DF61	Q9df61 gallus gall
38	219	12.4	1060	11	Q9QZ13	Q9qz13 rattus norv
39	218	12.4	1032	13	Q8UVD6	Q8uvd6 brachydanto
40	217.5	12.4	959	5	Q9N9Y9	Q9n9y9 drosophila
41	217.5	12.4	968	5	Q9W4T9	Q9w4t9 drosophila
42	217	12.3	417	4	Q96BJ1	Q96bj1 homo sapien
43	216.5	12.3	975	5	Q97174	Q97174 drosophila
44	216.5	12.3	1270	5	Q9U3P2	Q9u3p2 caenorhabdi
45	216	12.3	392	11	Q92314	Q92314 mus musculu

ALIGNMENTS

RESULT 1

Q9BY67 PRELIMINARY; PRT; 442 AA.

AC Q9BY67; 01-JUN-2001 (TREMblrel. 17, Created)

DT 01-JUN-2001 (TREMblrel. 17, Last sequence update)

DT 01-DEC-2001 (TREMblrel. 19, Last annotation update)

DE Necdin-like protein 2.

GN NECN2.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

OX NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;

RT "Cloning of a novel human cDNA encoding a member of the immunoglobulin superfamily".

RL Submitted (MAR-1999) to the EMBL/Genbank/DBJ databases.

DR EMBL: AF132811; AAF69029.1; -.

DR InterPro: IPR003598; Ig.

DR InterPro: IPR003598; Ig_C2.

DR InterPro: IPR003600; Ig_Like.

DR InterPro: IPR003006; Ig_MHC.

DR Pfam: PF00047; Ig_3.

DR SMART: SM00409; Ig_3.

DR SMART: SM00408; IgC2; 3.

DR SMART: SM00410; IG_Like; 2.

KW Immunoglobulin domain.

SO SEQUENCE 442 AA; 48537 MW; 68183E3238735062 CRC64;

Query Match 99.8%; Score 1758; DB 4; Length 442;
Best Local Similarity 99.7%; Pred. No. 6,7e+139;
Matches 335; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPTGDSQNLFTKDVIVIEGEVATISQVKNKSDSVTQLLPNRCOTYFRDPRFKSRRQ 60
DB 39 IPTGDSQNLFTKDVIVIEGEVATISQVKNKSDSVTQLLPNRCOTYFRDPRFKLSRRQ 98

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QY 61 LNFSSSEKLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRNIMIDIQKTAVE 120
   |||||||
Db 99 LNFSSSEKLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRNIMIDIQKTAVE 158
QY 121 GEEIEVNCATAMASKPATTTIRWFKGNTLKGKSEVEEMSDMTYTSQMLKVHKEDDGVPV 180
   |||||||
Db 159 GEEIEVNCATAMASKPATTTIRWFKGNTLKGKSEVEEMSDMTYTSQMLKVHKEDDGVPV 218
QY 181 ICQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALLETCEAIKGPQVNV 240
   |||||||
Db 219 ICQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALLETCEAIKGPQVNV 278
QY 241 TTVAVDDEMPQAHVLSGPNLFINNLTNDNGTYRCEASNIYGAHSDYMLVYDPTTIP 300
   |||||||
Db 279 TTVAVDDEMPQAHVLSGPNLFINNLTNDNGTYRCEASNIYGAHSDYMLVYDPTTIP 338
QY 301 PPTTTTTTTTTTTTTLITITDSRAGEGGSIRAVDH 336
   |||||||
Db 339 PPTTTTTTTTTTTTTLITITDSRAGEGGSIRAVDH 374

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RESULT 2

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Q8R4L1 PRELIMINARY; PRT; 445 AA.
AC O8R4L1;
DT 01-JUN-2002 (TREMBlrel. 21, Created)
DT 01-JUN-2002 (TREMBlrel. 21, last sequence update)
DE Tumor suppressor in lung cancer 1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
RN NCBL_TaxID=10090;
RP SEQUENCE FROM N.A.
RC STRAIN=129/SVJ;
RA Fukami T., Murakami Y.;
RT Identification of murine orthologue of the TSLC1 gene.;
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF434663; AAL86736.1; -.
SQ SEQUENCE 445 AA; 48664 MW; C5D5A070DAF70B55 CRC64;

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Query Match          98.9%; Score 1741; DB 11; Length 445;
Best Local Similarity 98.8%; Pred. No. 1.8e-137;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

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QY 1 IPTGDOGNTFTKDVYIEGEVATISCOVNSDSDSVIQLNPNQTIYFRDFRLKDSRFQ 60
   |||||||
Db 42 IPTGDOGNTFTKDVYIEGEVATISCOVNSDSDSVIQLNPNQTIYFRDFRLKDSRFQ 101
QY 61 LNFSSSEKLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRNIMIDIQKTAVE 120
   |||||||
Db 102 LNFSSSEKLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRNIMIDIQKTAVE 161
QY 121 GEEIEVNCATAMASKPATTTIRWFKGNTLKGKSEVEEMSDMTYTSQMLKVHKEDDGVPV 180
   |||||||
Db 162 GEEIEVNCATAMASKPATTTIRWFKGNTLKGKSEVEEMSDMTYTSQMLKVHKEDDGVPV 221
QY 181 ICQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALLETCEAIKGPQVNV 240
   |||||||
Db 222 ICQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALLETCEAIKGPQVNV 281
QY 241 TTVAVDDEMPQAHVLSGPNLFINNLTNDNGTYRCEASNIYGAHSDYMLVYDPTTIP 300
   |||||||
Db 282 TTVAVDDEMPQAHVLSGPNLFINNLTNDNGTYRCEASNIYGAHSDYMLVYDPTTIP 341
QY 301 PPTTTTTTTTTTTTTLITITDSRAGEGGSIRAVDH 336
   |||||||
Db 342 PPTTTTTTTTTTTTTLITITDSRAGEGGSIRAVDH 377

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RESULT 3
Q8R5M8

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ID O8R5M8 PRELIMINARY; PRT; 456 AA.
AC O8R5M8;
DT 01-JUN-2002 (TREMBlrel. 21, Created)
DT 01-JUN-2002 (TREMBlrel. 21, last sequence update)
DE Tumor suppressor in lung cancer 1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
RN NCBL_TaxID=10090;
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J;
RA Momoi T.;
RT "Biological function of RA175, a new member of immunoglobulin super
RT family";
RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB064265; BAB83501.2; -.
SQ SEQUENCE 456 AA; 49787 MW; 3226E866A4BC1C7F CRC64;

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Query Match          98.0%; Score 1725.5; DB 11; Length 456;
Best Local Similarity 95.7%; Pred. No. 3.7e-136;
Matches 332; Conservative 1; Mismatches 3; Indels 11; Gaps 1;

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```

QY 1 IPTGDOGNTFTKDVYIEGEVATISCOVNSDSDSVIQLNPNQTIYFRDFRLKDSRFQ 60
   |||||||
Db 42 IPTGDOGNTFTKDVYIEGEVATISCOVNSDSDSVIQLNPNQTIYFRDFRLKDSRFQ 101
QY 61 LNFSSSEKLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRNIMIDIQKTAVE 120
   |||||||
Db 102 LNFSSSEKLSLTNVSISDEGRYFCOLYTDPPQESYTTITVLVPPRNIMIDIQKTAVE 161
QY 121 GEEIEVNCATAMASKPATTTIRWFKGNTLKGKSEVEEMSDMTYTSQMLKVHKEDDGVPV 180
   |||||||
Db 162 GEEIEVNCATAMASKPATTTIRWFKGNTLKGKSEVEEMSDMTYTSQMLKVHKEDDGVPV 221
QY 181 ICQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALLETCEAIKGPQVNV 240
   |||||||
Db 222 ICQVEHPAVTGNLTQRYLEYQYKPOVHIQMTYPLQGLTREGDALLETCEAIKGPQVNV 281
QY 241 TTVAVDDEMPQAHVLSGPNLFINNLTNDNGTYRCEASNIYGAHSDYMLVYDPTTIP 300
   |||||||
Db 282 TTVAVDDEMPQAHVLSGPNLFINNLTNDNGTYRCEASNIYGAHSDYMLVYDPTTIP 341
QY 301 PPTTTTTTTTTTTTTLITITDSRAGEGGSIRAVDH 336
   |||||||
Db 342 PPTTTTTTTTTTTTTLITITDSRAGEGGSIRAVDH 388

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RESULT 4

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Q9CRY3 PRELIMINARY; PRT; 494 AA.
ID Q9CRY3;
AC Q9CRY3;
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, last sequence update)
DE 3100001108Rik protein (Fragment).
GN IGSP4 OR 3100001108Rik.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
RN NCBL_TaxID=10090;
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=EMBRYONIC HEAD;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Aikawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana K.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

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RA Schiml L.M., Staubl F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldi M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamlya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Kombearts P.,
RA Norone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Williams L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.,
RT "Functional annotation of a full-length mouse cDNA collection."
RL Nature 409:685-690(2001).
DR EMBL: AK013911; BAB29050.1; -.
DR MGD: MGI:1889272; Igsf4.
DR InterPro: IPR003598; Ig.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003006; Ig_MHC.
DR Pfam: PF00047; Ig_3.
DR SMART: SM00409; Ig_3.
DR SMART: SM00408; IGC2; 3.
DR SMART: SM00410; IG_Like; 1.
KW Immunoglobulin domain.
FT NON_TER 1
SQ SEQUENCE 494 AA; 53946 MW; F5E09AB1857ABC0 CRC64;

Query Match 98.0%; Score 1725.5; DB 11; Length 494;
Best Local Similarity 95.7%; Pred. No. 4,1e-136;
Matches 332; Conservative 1; Mismatches 3; Indels 11; Gaps 1;
QY 1 IPTGDCQNLFTKDVNIEGEVATISQVKNKSDSDSVIQLNPNRQTYFRDPRFLKDSRQ 60
DB 80 IPGDCQNLFTKDVNIEGEVATISQVKNKSDSDSVIQLNPNRQTYFRDPRFLKDSRQ 139
QY 61 LNFSSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLPVRNLMIDIOKTAVE 120
DB 140 LNFSSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLPVRNLMIDIOKTAVE 199
QY 121 GEEIENCTAMASKPATTTIRMFKNTELKGSSEVEEMSDMTYTTSOLMLKVHKEDGVPV 180
DB 200 GEEIENCTAMASKPATTTIRMFKNTELKGSSEVEEMSDMTYTTSOLMLKVHKEDGVPV 259
QY 181 ICVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTREGDALELTCGALCKPOPVAV 240
DB 260 ICVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTREGDALELTCGALCKPOPVAV 319
QY 241 TTVRVDDDEMPQHAVALSGPNLFTNNLKTNDNGTYRCASNVGKAHSDYMLYVDPPTTIP 300
DB 320 TTVRVDDDEMPQHAVALSGPNLFTNNLKTNDNGTYRCASNVGKAHSDYMLYVDPPTTIP 379
QY 301 PPTTTTTTTTTTTTTTTTTT-----DSRAGEGSTRAVDH 336
DB 380 PPTTTTTTTTTTTTTTTTTT-----DSRAGEGSTRAVDH 426

RESULT 5

09D6E7 PRELIMINARY: PRT; 336 AA.
AC 09D6E7;
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
DE 2900073606RLK protein.
GN IGSF4 OR 2900073606RLK.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBL_Taxid-10090;
RN (1)
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=HIPPOCAMPUS;
RX MEDLINE=21085660; PubMed=11217851;

RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Aizawa K., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana K.I.,
RA Saito T., Okazaki Y., Gotojori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiya H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schiml L.M., Staubl F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldi M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamlya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Kombearts P.,
RA Norone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Williams L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.,
RT "Functional annotation of a full-length mouse cDNA collection."
RL Nature 409:685-690(2001).
DR EMBL: AK013775; BAB28988.1; -.
DR MGD: MGI:1889272; Igsf4.
DR InterPro: IPR003598; Ig.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003006; Ig_MHC.
DR Pfam: PF00047; Ig_3.
DR SMART: SM00409; Ig_3.
DR SMART: SM00408; IGC2; 3.
DR SMART: SM00410; IG_Like; 1.
KW Immunoglobulin domain.
FT NON_TER 1
SQ SEQUENCE 336 AA; 37157 MW; FF887FAF4EFD120 CRC64;

Query Match 86.8%; Score 1529; DB 11; Length 336;
Best Local Similarity 99.3%; Pred. No. 6,7e-120;
Matches 291; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 IPTGDCQNLFTKDVNIEGEVATISQVKNKSDSDSVIQLNPNRQTYFRDPRFLKDSRQ 60
DB 42 IPGDCQNLFTKDVNIEGEVATISQVKNKSDSDSVIQLNPNRQTYFRDPRFLKDSRQ 101
QY 61 LNFSSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLPVRNLMIDIOKTAVE 120
DB 102 LNFSSSELKVLSTNVSISDEGRYFCQLYTDPQESYTTITVLPVRNLMIDIOKTAVE 161
QY 121 GEEIENCTAMASKPATTTIRMFKNTELKGSSEVEEMSDMTYTTSOLMLKVHKEDGVPV 180
DB 162 GEEIENCTAMASKPATTTIRMFKNTELKGSSEVEEMSDMTYTTSOLMLKVHKEDGVPV 221
QY 181 ICVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTREGDALELTCGALCKPOPVAV 240
DB 222 ICVEHPAVTGNLQTORYLEVQYKPOVHIQMTYPLQGLTREGDALELTCGALCKPOPVAV 281
QY 241 TTVRVDDDEMPQHAVALSGPNLFTNNLKTNDNGTYRCASNVGKAHSDYMLYV 293
DB 282 TTVRVDDDEMPQHAVALSGPNLFTNNLKTNDNGTYRCASNVGKAHSDYMLYV 334

RESULT 6

0922H8 PRELIMINARY: PRT; 295 AA.
AC 0922H8;
DT 01-MAY-1999 (TREMBlrel. 10, Created)
DT 01-MAY-1999 (TREMBlrel. 10, Last sequence update)
DE 2900073606RLK protein.
GN IGSF4 OR NECTIN2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBL_Taxid-10090;
RN (1)
RP SEQUENCE FROM N.A.

RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.:
 "Cloning of a novel cDNA encoding a member of immunosuperfamily."
 RT Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.
 RL EMBL: AF061260; AAC67243.1; -
 DR MGD: MGI:1889272; Igsf4.
 DR InterPro: IPR003598; Ig_C2.
 DR InterPro: IPR003600; Ig_Like.
 DR InterPro: IPR003585; Neurexin-like.
 DR Pfam: PF00047; Ig_2.
 DR SMART: SM00294; 4.1m; 1.
 DR SMART: SM00408; Igc2; 1.
 DR SMART: SM00410; Ig_Like; 1.
 KW Immunoglobulin domain.
 SQ SEQUENCE 295 AA; 32509 MW; 9DE9D86F6FF6488 CRC64;

Query Match 67.0%; Score 1180; DB 11; Length 295;
 Best Local Similarity 98.2%; Pred. No. 9.1e-91;
 Matches 223; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 110 MIDIQDTAVEGEIEVNCNTAMASKPATYIRWFKGNTLKGKSEVEEWSMDYVTSQML 169
 ID 09OYL6 PRELIMINARY; PRT; 306 AA.
 AC 09OYL6;
 DT 01-MAY-2000 (Tremblrel. 13, Created)
 DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)
 DT 01-JUN-2002 (Tremblrel. 21, Last annotation update)
 DE Adhesion protein RAI75C.
 GN IGSF4 OR RAI75C.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN 11
 RP SEQUENCE FROM N.A.
 RA Soyama A., Fujita E., Urabe K., Mukasa T., Kuroku Y., Momoi M.,
 RT "RAI75, a novel neuron specific adhesion protein."
 RT Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AB021964; BA87914.1; -
 DR MGD: MGI:1889272; Igsf4.
 DR InterPro: IPR003598; Ig_C2.
 DR InterPro: IPR003600; Ig_Like.
 DR InterPro: IPR003585; Neurexin-like.
 DR Pfam: PF00047; Ig_2.
 DR SMART: SM00294; 4.1m; 1.
 DR SMART: SM00408; Igc2; 1.
 DR SMART: SM00410; Ig_Like; 1.
 KW Immunoglobulin domain.
 SQ SEQUENCE 295 AA; 32347 MW; FDD9E8145C6B971B CRC64;

QY 290 LYYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGEGSIKAVDH 336
 DB 181 LYYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGEGSIKAVDH 227

RESULT 7
 ID 09OYL4 PRELIMINARY; PRT; 306 AA.
 AC 09OYL4;
 DT 01-MAY-2000 (Tremblrel. 13, Created)
 DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)
 DT 01-JUN-2002 (Tremblrel. 21, Last annotation update)
 DE Adhesion protein RAI75C.
 GN IGSF4 OR RAI75C.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN 11
 RP SEQUENCE FROM N.A.
 RA Soyama A., Fujita E., Urabe K., Mukasa T., Kuroku Y., Momoi M.,
 RT "RAI75, a novel neuron specific adhesion protein."
 RT Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AB021964; BA87914.1; -
 DR MGD: MGI:1889272; Igsf4.
 DR InterPro: IPR003598; Ig_C2.
 DR InterPro: IPR003600; Ig_Like.
 DR InterPro: IPR003585; Neurexin-like.
 DR Pfam: PF00047; Ig_2.
 DR SMART: SM00294; 4.1m; 1.
 DR SMART: SM00408; Igc2; 1.
 DR SMART: SM00410; Ig_Like; 1.
 KW Immunoglobulin domain.
 SQ SEQUENCE 306 AA; 33522 MW; A4CEB37B0E23554D5 CRC64;

Query Match 65.7%; Score 1157.5; DB 11; Length 306;
 Best Local Similarity 93.3%; Pred. No. 7.3e-89;
 Matches 222; Conservative 2; Mismatches 3; Indels 11; Gaps 1;

QY 110 MIDIQDTAVEGEIEVNCNTAMASKPATYIRWFKGNTLKGKSEVEEWSMDYVTSQML 169
 DB 1 MIDIQDTAVEGEIEVNCNTAMASKPATYIRWFKGNTLKGKSEVEEWSMDYVTSQML 60
 QY 170 KVHKEDGVPVICOVEHPAVTGNLQOTRYLEVQYKPPVHIQMTYPIQGLTREGDALELTC 229
 DB 61 KVHKEDGVPVICOVEHPAVTGNLQOTRYLEVQYKPPVHIQMTYPIQGLTREGDALELTC 120
 QY 230 EAIGKPPVWTVWVRVDEMPQHAVALSGPNLFINNLTNGTYRCEASNIYGAHSDYM 289
 DB 121 EAIGKPPVWTVWVRVDEMPQHAVALSGPNLFINNLTNGTYRCEASNIYGAHSDYM 180
 QY 290 LYYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGEGSIKAVDH 336
 DB 181 LYYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGEGSIKAVDH 238

RESULT 8
 ID 09OYL6 PRELIMINARY; PRT; 295 AA.
 AC 09OYL6;
 DT 01-MAY-2000 (Tremblrel. 13, Created)
 DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)
 DT 01-JUN-2002 (Tremblrel. 21, Last annotation update)
 DE Adhesion protein RAI75A.
 GN IGSF4 OR RAI75A.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN 11
 RP SEQUENCE FROM N.A.
 RA Soyama A., Fujita E., Urabe K., Mukasa T., Kuroku Y., Momoi M.,
 RT "RAI75, a novel neuron specific adhesion protein."
 RT Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AB021964; BA87914.1; -
 DR MGD: MGI:1889272; Igsf4.
 DR InterPro: IPR003598; Ig_C2.
 DR InterPro: IPR003600; Ig_Like.
 DR InterPro: IPR003585; Neurexin-like.
 DR Pfam: PF00047; Ig_2.
 DR SMART: SM00294; 4.1m; 1.
 DR SMART: SM00408; Igc2; 1.
 DR SMART: SM00410; Ig_Like; 1.
 KW Immunoglobulin domain.
 SQ SEQUENCE 295 AA; 32347 MW; FDD9E8145C6B971B CRC64;

Query Match 64.6%; Score 1137; DB 11; Length 295;
 Best Local Similarity 94.7%; Pred. No. 3.6e-87;
 Matches 215; Conservative 3; Mismatches 9; Indels 0; Gaps 0;

QY 110 MIDIQDTAVEGEIEVNCNTAMASKPATYIRWFKGNTLKGKSEVEEWSMDYVTSQML 169
 DB 1 MIDIQDTAVEGEIEVNCNTAMASKPATYIRWFKGNTLKGKSEVEEWSMDYVTSQML 60
 QY 170 KVHKEDGVPVICOVEHPAVTGNLQOTRYLEVQYKPPVHIQMTYPIQGLTREGDALELTC 229
 DB 61 KVHKEDGVPVICOVEHPAVTGNLQOTRYLEVQYKPPVHIQMTYPIQGLTREGDALELTC 120
 QY 230 EAIGKPPVWTVWVRVDEMPQHAVALSGPNLFINNLTNGTYRCEASNIYGAHSDYM 289
 DB 121 EAIGKPPVWTVWVRVDEMPQHAVALSGPNLFINNLTNGTYRCEASNIYGAHSDYM 180
 QY 290 LYYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGEGSIKAVDH 336
 DB 181 LYYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTSDRAGEGSIKAVDH 227

RESULT 9
 ID 09OYL5 PRELIMINARY; PRT; 289 AA.

AC O90YL5:
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
 DE Adhesion protein RA175B.
 GN IGSF4 OR RA175B.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_Taxid=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Soyama A., Fujita E., Urabe K., Mukasa T., Kouroku Y., Momoi M.,
 RA Momoi T.;
 RT "RA175, a novel neuron specific adhesion protein.";
 RL Submitted (DEC-1998) to the EMBL/Genbank/DBJ databases.
 DR EMBL; AB021965; BA87915.1; -;
 DR MGI; MGI:1889272; Igsf4.
 DR InterPro; IPR003598; I9_c2.
 DR InterPro; IPR003600; I9_1like.
 DR InterPro; IPR003006; I9_MHC.
 DR InterPro; IPR003585; Neurexin-like.
 DR Pfam; PF00047; I9_2.
 DR SMART; SM00294; 4.Im. 1.
 DR SMART; SM00408; IGC2; 1.
 DR SMART; SM00410; IGC1like; 1.
 KW Immunoglobulin domain.
 SQ SEQUENCE 289 AA; 31811 MW; 801B836D0565AE4A CRC64;

Query Match 59.5%; Score 1048; DB 11; Length 289;
 Best Local Similarity 89.4%; Pred. No. 9.9e-80;
 Matches 203; Conservative 3; Mismatches 15; Indels 6; Gaps 1;

OY 110 MIDIQKDTAVEGEELVNTAMASKPATTIRMFKGTGLKSGSEVEMSDMTVTYSQML 169
 |||||||
 DB 1 MIDIQKDTAVEGEELVNTAMASKPATTIRMFKGTGLKSGSEVEMSDMTVTYSQML 60
 OY 170 KVKHEDDGVYVICOVEHRAVNTGNLQTORLYEQYKQVHIQMTYPLQGLTRGDALELTG 229
 |||||||
 DB 61 KVKHEDDGVYVICOVEHRAVNTGNLQTORLYEQYKQVHIQMTYPLQGLTRGDALELTG 120
 OY 230 EAIGKRPQVMTWVRVDDMPQHAVLSCPNLFTNNLKNKTGNTYRCASNIYGAHSDYM 289
 |||||||
 DB 121 EAIGKRPQVMTWVRVDDMPQHAVLSCPNLFTNNLKNKTGNTYRCASNIYGAHSDYI 180
 OY 290 LVYDPRPTTIPPTTTTTTTTTTILTIITDSRAGEGSIKAVDH 336
 |||||
 DB 181 LVYDPTTTT-----LTITDTTATTPAVHDSRAGEGSIKAVDH 221

RESULT 10
 O90YL3 PRELIMINARY: PRT; 278 AA.
 AC O90YL3:
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
 DE Adhesion protein RA175N.
 GN IGSF4 OR RA175N.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_Taxid=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Soyama A., Fujita E., Urabe K., Mukasa T., Kouroku Y., Momoi M.,
 RA Momoi T.;
 RT "RA175, a novel neuron specific adhesion protein.";
 RL Submitted (DEC-1998) to the EMBL/Genbank/DBJ databases.
 DR EMBL; AB021967; BA87917.1; -;
 DR MGI; MGI:1889272; Igsf4.
 DR InterPro; IPR003598; I9_c2.
 DR InterPro; IPR003600; I9_1like.

DR InterPro; IPR003006; I9_MHC.
 DR InterPro; IPR003585; Neurexin-like.
 DR Pfam; PF00047; I9_2.
 DR SMART; SM00294; 4.Im. 1.
 DR SMART; SM00408; IGC2; 1.
 DR SMART; SM00410; IGC1like; 1.
 KW Immunoglobulin domain.
 SQ SEQUENCE 278 AA; 30636 MW; A295F4DEA2724B04 CRC64;

Query Match 58.2%; Score 1024.5; DB 11; Length 278;
 Best Local Similarity 87.2%; Pred. No. 8.7e-78;
 Matches 198; Conservative 3; Mismatches 9; Indels 17; Gaps 1;

OY 110 MIDIQKDTAVEGEELVNTAMASKPATTIRMFKGTGLKSGSEVEMSDMTVTYSQML 169
 |||||||
 DB 1 MIDIQKDTAVEGEELVNTAMASKPATTIRMFKGTGLKSGSEVEMSDMTVTYSQML 60
 OY 170 KVKHEDDGVYVICOVEHRAVNTGNLQTORLYEQYKQVHIQMTYPLQGLTRGDALELTG 229
 |||||||
 DB 61 KVKHEDDGVYVICOVEHRAVNTGNLQTORLYEQYKQVHIQMTYPLQGLTRGDALELTG 120
 OY 230 EAIGKRPQVMTWVRVDDMPQHAVLSCPNLFTNNLKNKTGNTYRCASNIYGAHSDYM 289
 |||||||
 DB 121 EAIGKRPQVMTWVRVDDMPQHAVLSCPNLFTNNLKNKTGNTYRCASNIYGAHSDYI 180
 OY 290 LVYDPRPTTIPPTTTTTTTTTTILTIITDSRAGEGSIKAVDH 336
 |||||
 DB 181 LVYD-----TTATTPAVHDSRAGEGSIKAVDH 210

RESULT 11
 O8R464 PRELIMINARY: PRT; 388 AA.
 AC O8R464:
 DT 01-JUN-2002 (TREMBLrel. 21, Created)
 DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
 DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
 DE Membrane glycoprotein.
 GN TSL2.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_Taxid=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=129/SVJ;
 RA Fukami T., Matuyama T., Murakami Y.;
 RT "Identification of a murine ortholog of the TSLC1-like gene 2.";
 RL Submitted (OCT-2001) to the EMBL/Genbank/DBJ databases.
 DR EMBL; AY059394; AAL29692.1; -;
 SQ SEQUENCE 388 AA; 42723 MW; 8E3A9DF1C3B9D23E CRC64;

Query Match 35.3%; Score 622; DB 11; Length 388;
 Best Local Similarity 40.6%; Pred. No. 6.6e-44;
 Matches 123; Conservative 62; Mismatches 112; Indels 6; Gaps 3;

OY 4 GGQNLFTQDVTVIIEGVNTISQVYKSDPSVYQLNPNKQTYFDFRPLKDSRFQLN 63
 |||||
 DB 22 GTGQEVQTEVNTVAEGVALETCRLHNYGDSIVVIONPAPQTLFFNGTALAKDERQLEB 81
 OY 64 FSSSELKAVSLTVNSISDEGRFCQLYTDRPQESYTTTVLVPRNLMIDIOKDTAVEGEE 123
 |||||
 DB 82 FSPRVRIRLSDARLEDEGGFCQLYTDRPQESYTTTVLVPRNLMIDIOKDTAVEGEE 140
 OY 124 IEVNTAMASKPATTIRMFKGTGLKSGSEVEMSDMTVTYSQMLKVKHEDDGVYVICO 183
 |||||
 DB 141 VELSCVLPSPRAAVALRWYRDRKELKGVSSQGENGVWVASTVRRVYRKDDGGITVEE 200
 OY 184 VEHRAVTTG--NIQTORLYEQYKQVHIQMTYPLQGLTRGDALELTGCAIGKRPQVMT 241
 |||||
 DB 201 AQNGALPSGHSKQTYLVLDVQYSPTARIHAS---QAVVREGDVLVLTCAVTAQVPRNQIR 257
 OY 242 WVRVDDMPQHAVLSCPNLFTNNLKNKTGNTYRCASNIYGAHSDYMLVYDPRPTTIP 301

Dd	258	WMRGHSESLPERAEVAGETLTLPGLVSADNGTTCCEAANKHGHAALYLVYVDPAVYA	317
Oy	302	PPT 304 :	
Dd	318	QTS 320	
RESULT 12			
O9Y4A4	O9Y4A4	PRELIMINARY:	PRT: 381 AA.
AC	O9Y4A4:		
Dt	01-NOV-1999	(TREMBLrel. 12, Created)	
Dt	01-NOV-1999	(TREMBLrel. 12, Last sequence update)	
Dt	01-JUN-2002	(TREMBLrel. 21, Last annotation update)	
DE	F22162_1	(Fragment).	
OS	Homo sapiens (Human).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
CC	Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.		
OX	NCBI_Taxid=9606;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RA	Lamerdin J.E., McCready P.M., Skowronski E., Adamson A.W.,		
RA	Burkhardt-Schultz K.J., Gordon L., Kyle A., Ramirez M., Stillwagen S.,		
RA	Phan H., Velasco N., Do L., Regala W., Terry A., Ganes J.,		
RA	Danganan L., Poundstone P., Christensen M., Georgescu A., Avila J.,		
RA	Lin S., Attix C., Andreise T., Trankheim M., Antco-Keller G.,		
RA	Cosfield J., Duarte S., Lucas S., Bruce R., Thomas P., Quan G.,		
RA	Kionmiller B., Ariellano A., Montgomery M., Ow D., Nolan M., Trong S.,		
RA	Kobayashi A., Olsen A.S., Carrano A.V.;		
RT	"Sequence analysis of a 2.5 kb region in 19q13.2 containing a		
RT	clustered CEA/PSG gene family."		
RL	Submitted (AUG-1998) to the EMBL/GenBank/DBJ databases.		
DR	EMBL; AC005525; AAC32740.1; -.		
DR	HSSP; P80748; 2LOI.		
DR	InterPro: IPR003598; Ig_C2.		
DR	InterPro: IPR003600; Ig_Like.		
DR	InterPro: IPR003006; IG_MHC.		
DR	InterPro: IPR003585; Neurexin-like.		
DR	Pfam; PF00047; Ig_3.		
DR	SMART; SM00294; 4.Im; 1.		
DR	SMART; SM00408; IGC2; 1.		
DR	SMART; SM00410; IG_Like; 2.		
KW	Immunoglobulin domain.		
FT	NON TER		
SO	SEQUENCE 381 AA; 41787 MW; 315420B36FBFDC05 CRC64;		
Query Match 34.6%; Score 609; DB 4; Length 381;			
Best Local Similarity 39.1%; Pred. No. 7.9e-43;			
Matches 126; Conservative 62; Mismatches 120; Indels 14; Gaps 5			
Oy	6	GONLFKQVTVIEGVATISCOVNKSDDSVIOLNPNRQTIFYRDFRIKDSRFOLLNS	65
Dd	2	GOEVTENVTAEGGAETCTRLHQDYDSIVAIQNPARQTLFFNGTRALKDERFOLEERS	61
Oy	66	SSELKVLSTNISISEGGVFCOLYTDPDQESTTTITVLYPPRNLMIDIOKDPAVEGELE	125
Dd	62	PRVRATRISLDARLBDEGGFCOLYTEEDHHQATLTVLAPENPVAVEV-REGAVSGEVE	120
Oy	126	VNCTAMASKPATTTIFMFGKNTTELKSKSEVEESMDWTYSOMLKYHKEDDVPIYIQVE	185
Dd	121	LSCLPFRSRPATLTLMYDKRELKVVSSSQENGKWASVAIYRFRRYDRKDDGCIITICEAQ	180
Oy	186	HPAYTG-NLGTQRILEVOYRKQVIQMITYPLQGITREBDALETLCEAIGKQPVMWTVV	243
Dd	181	NQALPSGHSKQTOYLVDQVSPATAIHS---QAVYREGDTLYLTCATYGNRPNIRKN	237
Oy	244	RYDDMPQHAAVLSGFNFILNNLKTDNGTYRCEASNIVGAKSHADMYLVYDP---PTT-	298
Dd	238	RGNEISLPERAAVGFTLLPGLVSAADNGTYCEASNKHGHARALYLVYVCGSRLRPEEG	297
Oy	299	---IPRPTTTTTTTTTTTTTI 317	

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Db      298 GCGAPDPGAVNVAQTSVPAIV 319

RESULT 13
O99N28          PRELIMINARY;             PRT;           396 AA.
ID            O99N28
AC            O99N28;
DT            01-JUN-2001 (TREMBLrel. 17, Created)
DT            01-JUN-2001 (TREMBLrel. 17, Last sequence update)
DE            01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE            Nectin-like protein 1 (Membrane glycoprotein).
GN            NEC1L OR TSLL1.
OS            Mus musculus (Mouse).
OC            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX            NCBI_TaxID=10090;
RN            [1]
RP            SEQUENCE FROM N.A.
RC            STRAIN=129/SVJ;
RA            Fukami T., Maruyama T., Murakami Y.;
RL            "Identification of a murine ortholog of the TSCL1-like gene 1.";
RL            Submitted (Oct-2001) to the EMBL/GenBank/DBJ databases.
DR            EMBL; AF195662; AAC55584.1; -.
DR            EMBL; AY059393; AAL29691.1; -.
DR            MGD; MG1:2137858; Nec1l.
DR            InterPro; IPR003599; Ig_
DR            InterPro; IPR003598; Ig_C2.
DR            InterPro; IPR003600; Ig_Like.
DR            InterPro; IPR003006; Ig_MHC.
DR            Pfam; PF00047; Ig; 3.
DR            SMART; SM00409; IGc; 3.
DR            SMART; SM00408; IGc2; 3.
DR            SMART; SM00410; IG_Like; 2.
KW            Immunoglobulin domain.
SQ            SEQUENCE   396 AA;  42964 MW;  C1ADF8B57D141F3A CRC64;

Query Match               27.4%; Score 482.5; DB 11; Length 396;
Best Local Similarity     35.4%; Pred. No. 3.2e-32;
Matches 110; Conservative 63; Mismatches 119; Indels 19; Gaps

QY      5 DGNLFETKDVTVIEGEVATISCOVKNSDDSVYQLINPNRQITFYFRDFRELYKDSRFQLNF 64
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      27 DDSQWSTDERVTAVAGGLYVLKQVDHEDSSLGWNPNRQGITLYFGFKRALRRNRILQVLS 86
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      65 SSELKASLVLTNVISDEGRYFCQLYTDRPQESYTTITYLVLPRRNLMDIQKTAVEGEETI 124
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      87 TPHEIISTISNVALLDEEEYTCISFTMPVRTRAKSLVTVLGIPQKPLINGYKSKSLEKEETA 146
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

YQ      125 EVNCNAMASKPATIRMKKGNTELKG-KSEVENEMSD--MYTTSOLMLKVHKEDDGVPVI 181
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      147 TLNCCSSGSKPPAAQITWRKGGDELHGDDTRIODEPNGKITVYSSVSFQVTFREDGANIV 206
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      182 COVERPAATG-NLAQRYRLVOYKPOVNLIOMTYPLQGLTRREGDALEINCEALIGKPPVAV 240
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      207 CSVNHEISLKAGADRSTSQLLEVLYTTAMIR---PEPARPREQOKILLICEGNGNPQQY 263
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      241 TWVRVADMEP---OHAVLSGNPIFINNLKNTDNGTYRKCAINSIVGAKASHDMLVYPDP 296
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      264 VVWKSGSPPLKMGDESALIFP-----FLNKSDSGTGYCCTAASNNGSYTAAYTLVANPDPS 318
       : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY      297 TTTPPTTTTT 307
       | : : : : |
Db      319 ---PVPSSSST 326

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GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus.n2p model

Run on: November 20, 2002, 07:46:46 ; Search time 17.5 Seconds

(without alignments)
3389,521 Million cell updates/sec

Title: US-09-778-187b-3_COPY_62_1069

Perfect score: 1804

Sequence: 1 atcccacagtgatgacac.....ccattggggcagtgaccac 1008

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 525148

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+np.model -DEV=xlp
-O=/cgn2_1/USPTO.spool/US09778187/runat.20112002.073631.26345/app.query.fasta_1.2318
-DB=Issued_Patents_AA -QPMF=fastan -SUFFIX=ra1 -MINMATCH=0.1 -IOOFCI=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR.SCORE=pct -THR.MAX=100 -THR.MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMF=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09778187@cgn.1.1.28.@runat.20112002.073631.26345 -NCPU=6 -ICPU=3
-NO_XLPXY -NO_WMAP -LARGEQUERY -NEG.SCORES=0 -WAIT -LONGLOG -DEV.TIMECUT=120
-NARN.TIMECUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

1: Issued_Patents_AA:*
2: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/PTCUS.COMB.pep:*
7: /cgn2_6/ptodata/1/1aa/Backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	625.5	34.7	421	2	US-08-659-984A-1
2	625.5	34.7	421	2	US-08-660-531-1
3	625.5	34.7	444	4	US-08-659-984A-5
4	625.5	34.7	444	4	US-08-660-531-5
5	331	12.8	393	1	US-08-429-742-2
6	207	11.5	458	4	US-09-435-956A-1
7	204.5	11.3	388	4	US-08-429-742-4
8	204	11.3	642	1	US-08-217-299-1
9	204	11.3	698	2	US-08-602-725-36
10	204	11.3	734	3	US-08-389-459A-17
11	204	11.3	734	3	US-08-987-867A-17
12	193	10.7	1395	4	US-09-540-245A-15

13	192	10.6	1651	4	US-09-540-245A-18	Sequence 18, Appl
14	191.5	10.6	583	2	US-08-432-016-2	Sequence 2, Appl
15	191.5	10.6	583	2	US-08-684-594-2	Sequence 2, Appl
16	187.5	10.4	308	2	US-08-414-657D-46	Sequence 46, Appl
17	187.5	10.4	325	2	US-08-414-657D-2	Sequence 2, Appl
18	187.5	10.4	325	2	US-08-414-657D-41	Sequence 41, Appl
19	187.5	10.4	325	4	US-09-135-080-2	Sequence 2, Appl
20	187.5	10.4	287	2	US-08-414-657D-48	Sequence 48, Appl
21	187	10.4	304	2	US-08-414-657D-44	Sequence 44, Appl
22	187	10.4	477	2	US-08-432-016-3	Sequence 3, Appl
23	187	10.4	477	2	US-08-684-594-3	Sequence 4, Appl
24	185.5	10.3	315	2	US-08-414-657D-47	Sequence 47, Appl
25	185.5	10.3	338	2	US-08-414-657D-42	Sequence 42, Appl
26	185.5	10.3	338	2	US-08-414-657D-43	Sequence 43, Appl
27	185.5	10.3	338	4	US-09-135-080-4	Sequence 4, Appl
28	185.5	10.3	1241	4	US-09-040-774-2	Sequence 2, Appl
29	185	10.3	287	2	US-08-414-657D-49	Sequence 49, Appl
30	185	10.3	310	2	US-08-414-657D-45	Sequence 45, Appl
31	183.5	10.2	1297	4	US-09-540-245A-17	Sequence 17, Appl
32	181.5	10.1	1447	4	US-09-041-886-25	Sequence 25, Appl
33	181.5	10.1	1447	5	PCT-US94-05277-2	Sequence 2, Appl
34	179.5	10.0	338	2	US-08-414-657D-60	Sequence 60, Appl
35	179.5	10.0	338	4	US-09-135-080-8	Sequence 8, Appl
36	174.5	9.7	478	5	PCT-US95-08493-15	Sequence 15, Appl
37	174.5	9.7	860	5	PCT-US95-08493-19	Sequence 19, Appl
38	174.5	9.7	868	5	PCT-US95-08493-21	Sequence 21, Appl
39	173.5	9.6	408	4	US-09-724-864-62	Sequence 62, Appl
40	172.5	9.6	869	1	US-08-374-834-16	Sequence 16, Appl
41	172.5	9.6	869	2	US-08-644-271-29	Sequence 29, Appl
42	172.5	9.6	869	4	US-09-077-955-33	Sequence 33, Appl
43	172	9.5	607	2	US-08-752-307B-12	Sequence 12, Appl
44	172	9.5	607	4	US-09-707-802-12	Sequence 12, Appl
45	172	9.5	607	4	US-09-991-326-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1
US-08-659-984A-1
; Sequence 1, Application US/08659984A
; Patent No. 5942400
; GENERAL INFORMATION:
; APPLICANT: Anderson, John P.
; APPLICANT: Sinha, Sukanto
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
; TITLE OF INVENTION: Inhibition
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/659,984A
; FILING DATE: 07-JUN-1996
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.
; REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400

TELEFAX: 415-326-2422
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 421 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-659-984A-1

Alignment Scores:

Pred. No.:	2,62e-48	Length:	421
Score:	625.50	Matches:	137
Percent Similarity:	57.83%	Conservative:	66
Best Local Similarity:	39.03%	Mismatches:	121
Query Match:	34.67%	Indels:	27
DB:	2	Gaps:	6

US-09-778-187B-3_COPY_62_1069 (1-1008) x US-08-659-984A-1 (1-421)

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OY 16 GCACAGAAATCTGTTTAAAGACGTGACGATTTGAAGAGAGTGGCAGCATCAGC 75
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Db 10 GlycylphenylleuThrValValGlyGlyThrAlaIleLeuThr 29
OY 76 TGGCAGTCAATAGAGTACAGTACGATTCACCTCGAAGCCCAACAGCAGCAGC 135
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Db 30 CysArgValAspIleAsnAspThrSerLeuGlnThrSerAsnProAlaGlnGlnThr 49
OY 136 ATTTACTGAGGCTTACAGGCTTTGAGGAGCAGCAGTTCGATGCTGCAATTTTCT 195
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Db 50 LeuTyrPheAspIleValAlaLeuArgAspAsnArgIleGluLeuValAlaGlnSer 69
OY 196 AGCAGTGAATCAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 255
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Db 70 TrpHisGluLeuSerIleSerValSerValSerLeuSerIleValSerLeuThr 89
OY 256 TGGCAGTCAATAGAGTACAGTACGATTCACCTCGAAGCCCAACAGCAGCAGC 315
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Db 90 CysSerLeuPheThrMetProValIleThrSerIleValIleThrValIleGlyVal 109
OY 316 CCACGTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 375
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Db 110 ProGluIleProGlnIleSerGlyPheSerSerProValMetGluGlyAspLeuMetGln 129
OY 376 GTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 435
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 130 LeuThrCysIleThrSerGlySerIleProAlaIleAspIleArgTrpPheLysAsnAsp 149
OY 436 AAGGAACCTCAAGGCAATCAGAGGTGAGAGTGGTGC-----GACATGTACT 486
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Db 150 LysGluIleLysAspValIleLysTyrLeuLysGluGluAspAlaAsnArgLysThrPheThr 169
OY 487 GTACACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 546
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 170 ValSerSerThrIleuAspPheArgValAspArgSerAspIleValAlaIleCys 189
OY 547 CAGGTGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 603
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 190 ArgValAspHisIleSerLeuAsnAlaThrProGlnValAlaMetGlnValLeuGluIle 209
OY 604 CAGTATAAACCGCAAGTGCATATCCAGATGACTTACCCTGCAAGGCCCAACCGGAA 663
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 210 HisTyrThrProSerValIleLysIle-----IleProSerThrProPheProGlnGlu 226
OY 664 GGGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 723
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 227 GlyGlnProLeuIleLeuThrCysGluSerLysGlyLysProLeuProGluProValLeu 246
OY 724 TGGGTGAGTGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 777
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 247 TrpThrLysAspIleGlyGluLeuProAspProAspArgMetValIleSerGlyArgGlu 266
OY 778 CTGTTTATCATTAACCTAAACAAACAGATTAACGGTACTTACCGCTGTGAGGCTTCAC 837

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Db 267 LeuAsnIleLeuPheLeuAsnLysThrAspAsnGlyThrTyrArgCysGluAlaThrAsn 286
OY 838 ATAGTGGAAAGGCTCATTCGGACTATATGCTGATGATATACATCCCAACACTATC 897
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 287 ThrIleGlyIleSerSerAlaGluTyrValLeuIleValHisAspValProAsnThrLeu 306
OY 898 CCTCCCTCCCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 957
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 307 LeuProThrThrIleIleProSerLeuThrAlaThrValThrThrValAlaIle 326
OY 958 ATCACA-----GATTCTCGAGCA 975
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 327 ThrThrSerProThrThrSerAlaThrThrSerSerIleArgAspProAsnAlaLeuAla 346
OY 976 GGTGAAGAGGGGACCAATTTGGGCGAGTGAGCAC 1008
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Db 347 GlyGlnAsnGlyPro-----AspHis 353

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RESULT 2

US-08-660-531-1

; Sequence 1, Application US/08660531
 ; Patent No. 6221645

; GENERAL INFORMATION:

; APPLICANT: Chrysler, Susanna M.S.

; APPLICANT: Sinha, Sukanto

; APPLICANT: Keim, Pamela S.

; APPLICANT: Anderson, John P.

; TITLE OF INVENTION: Beta-Secretase

; NUMBER OF SEQUENCES: 21

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Townsend and Crew LLP

; STREET: Two Embarcadero Ctr., 8th Floor

; CITY: San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94111-3834

; COMPUTER READABLE FORM:

; MEDIAN TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/660,531

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/480,498

; FILING DATE: 07-JUN-1995

; ATTORNEY/AGENT INFORMATION:

; NAME: Heslin, James M.

; REGISTRATION NUMBER: 29,541

; REFERENCE/DOCKET NUMBER: 15270-002210US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415-326-2400

; TELEFAX: 415-326-2422

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 421 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-660-531-1

Alignment Scores:	2,62e-48	Length:	421
Pred. No.:	625.50	Matches:	137
Score:	57.83%	Conservative:	66
Percent Similarity:	39.03%	Mismatches:	121
Best Local Similarity:	34.67%	Indels:	27
Query Match:	4	Gaps:	6

DB: 4

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: November 20, 2002, 07:46:20 ; Search time 39.5 seconds

(without alignments)
4906.506 Million cell updates/sec

Title: US-09-778-187b-3_COPY_62_1069

Perfect score: 1 atccacacagtgatgagaca.....ccattggggcagtgaccac 1008

Sequence: 1 atccacacagtgatgagaca.....ccattggggcagtgaccac 1008

Scoring table: BIOSUM62

Xgapop 10.0 , Ygapext 0.5

Xgapop 10.0 , Ygapext 0.5

Fgapop 6.0 , Fgapext 7.0

Delop 6.0 , Delext 7.0

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 566448

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

MODEL=frame+n2p.model -DEV=xlp

-O=/sgn2_1/USPRO.spool/US09778187/umut_20112002_073630_26329/app.query.fasta.1.2318

-DB=PIR_73 -QFRT=fastan -SUFFIX=trp -MINMATCH=0.1 -LOOPEXT=0 -LIST=45

-UNITS=bits -START=1 -END=1 -MATRIX=BIOSUM62 -TRANS=human40.cdi -LIST=45

-DOCALLIGN=200 -THR.SCORE=pct -THR.MAX=100 -THR.MIN=0 -ALIGN=15 -MODE=LOCAL

-OUTFMT=plc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000

-USER=US09778187.GC.N.1.113 -EUNUT 20112002_073630_26329 -NCPU=6 -ICPU=3

-NO_XLPHY -NO_MMAR -LARGQUERY -NEG_SCORES=0 -MATT -LONGLOG -DEV.TIMEOUT=120

-WALL.TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7

-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

PIR_73:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	261.5	14.5	5175	2	T20992	hypothetical prote
2	261.5	14.5	5198	2	T43290	hemiscutin precurs
3	245	13.6	407	2	T08732	hypothetical prote
4	238	13.2	725	2	J60099	neural cell adhesi
5	234	13.0	1088	1	IXJLNL	neural cell adhesi
6	228.5	12.7	7962	2	I38346	elastic titlin - hu
7	226	12.5	4162	2	T22633	connectin/titin -
8	223	12.4	344	2	I56551	neurofilamin - rat
9	222	12.3	530	2	A53437	poliovirus recepto
10	222	12.3	725	2	J60100	neural cell adhesi
11	222	12.3	1092	1	JN0635	neural cell adhesi
12	221.5	12.3	538	2	I68093	PR2 delta - human
13	220	12.2	392	2	B4194	poliovirus recepto
14	220	12.2	417	2	A4194	poliovirus recepto

15	220	12.2	467	1	HLKSP3	poliovirus recepto
16	218	12.1	392	1	RWHUPD	poliovirus recepto
17	218	12.1	417	1	RWHUPA	poliovirus recepto
18	216.5	12.0	478	2	I53960	PR2 alpha - human
19	216	12.0	4391	2	A38096	perlecan precursor
20	214	11.9	1011	2	T13669	neuroascin - fr
21	210	11.6	518	2	JC4024	poliovirus recepto
22	209.5	11.6	345	2	S03199	opioid-binding pro
23	209.5	11.6	584	2	I50419	s-glycerin precurs
24	207.5	11.5	345	2	JC4025	opioid-binding cel
25	206.5	11.4	862	2	I49583	differentiation an
26	206.5	11.4	868	2	A46512	CD22 homolog/B lym
27	206	11.4	847	2	JH0371	B-cell adhesion pr
28	205.5	11.4	812	2	B42632	cell adhesion mole
29	205.5	11.4	932	2	A42632	cell adhesion mole
30	204	11.3	702	2	A36319	carcinoembryonic a
31	202	11.2	1443	2	I50600	neogenin - chicken
32	201.5	11.2	345	2	JC1239	opioid-binding pro
33	200.5	11.1	338	2	JC1238	opioid-binding pro
34	199	11.0	338	2	JC5519	50K glycoprotein p
35	195.5	10.8	765	2	C42632	cell adhesion mole
36	195	10.8	1344	2	T14316	rig-1 protein - mo
37	194.5	10.8	3707	2	S18252	heparan sulfate pr
38	193	10.7	588	2	A45234	surface glycoprote
39	193	10.7	761	1	I4HUNG	neural cell adhesi
40	193	10.7	1091	1	ICCHNL	neural cell adhesi
41	193	10.7	1323	2	PN0568	connectin 3B - chi
42	193	10.7	1612	2	T30805	ducl1 protein - mo
43	192	10.6	1036	2	S22383	axonin 1 precursor
44	191.5	10.6	583	2	I39428	alcam - human
45	190	10.5	646	2	I38049	cell surface glyco

ALIGNMENTS

RESULT 1

T20992 hypothetical protein F15G9.4a - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 18-Feb-2000

C:Accession: T20992; T24733

R:Suiston, J.

submitted to the EMBL Data Library, December 1994

A:Reference number: Z19355

A:Accession: T20992

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA

A:Residues: 1-5175 <WIL>

A:Cross-references: EMBL:Z47068; PIDN:CA87335.1; GSPDB:GN00028; CESP:F15G9.4a

R:Kershaw, J.

submitted to the EMBL Data Library, December 1994

A:Reference number: Z19929

A:Accession: T24733

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA

A:Residues: 1-5175 <WIL>

A:Cross-references: EMBL:Z47070; PIDN:CA87344.1; GSPDB:GN00028; CESP:F15G9.4a

A:Experimental source: clone T09B9

15	220	12.2	467	1	HLKSP3	poliovirus recepto
16	218	12.1	392	1	RWHUPD	poliovirus recepto
17	218	12.1	417	1	RWHUPA	poliovirus recepto
18	216.5	12.0	478	2	I53960	PR2 alpha - human
19	216	12.0	4391	2	A38096	perlecan precursor
20	214	11.9	1011	2	T13669	neuroascin - fr
21	210	11.6	518	2	JC4024	poliovirus recepto
22	209.5	11.6	345	2	S03199	opioid-binding pro
23	209.5	11.6	584	2	I50419	s-glycerin precurs
24	207.5	11.5	345	2	JC4025	opioid-binding cel
25	206.5	11.4	862	2	I49583	differentiation an
26	206.5	11.4	868	2	A46512	CD22 homolog/B lym
27	206	11.4	847	2	JH0371	B-cell adhesion pr
28	205.5	11.4	812	2	B42632	cell adhesion mole
29	205.5	11.4	932	2	A42632	cell adhesion mole
30	204	11.3	702	2	A36319	carcinoembryonic a
31	202	11.2	1443	2	I50600	neogenin - chicken
32	201.5	11.2	345	2	JC1239	opioid-binding pro
33	200.5	11.1	338	2	JC1238	opioid-binding pro
34	199	11.0	338	2	JC5519	50K glycoprotein p
35	195.5	10.8	765	2	C42632	cell adhesion mole
36	195	10.8	1344	2	T14316	rig-1 protein - mo
37	194.5	10.8	3707	2	S18252	heparan sulfate pr
38	193	10.7	588	2	A45234	surface glycoprote
39	193	10.7	761	1	I4HUNG	neural cell adhesi
40	193	10.7	1091	1	ICCHNL	neural cell adhesi
41	193	10.7	1323	2	PN0568	connectin 3B - chi
42	193	10.7	1612	2	T30805	ducl1 protein - mo
43	192	10.6	1036	2	S22383	axonin 1 precursor
44	191.5	10.6	583	2	I39428	alcam - human
45	190	10.5	646	2	I38049	cell surface glyco

Alignment Scores:	4.16e-12	Length:	5175
Pred. No.:	261.50	Matches:	87
Score:	43.06%	Conservative:	65
Best Local Similarity:	24.65%	Mismatches:	130
Query Match:	14.50%	Indels:	71
DB:	2	Gaps:	15

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DB 2200 ValThralAlleySglYalAlaLeuProPhelysCysProIleSp-----AspSP 2217
OY 100 TCAGTATCCAGCTCTGAACCCCAACAGCAGACCATTTACTTCCAGGACTTCAGGCT 159
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DB 2218 Lys-----AsnPhelysGlyGlnIleIleThrePleunArgSntYrGlnPro 2232
OY 160 TTG-----AAGACAGCAGGTTTCACTGCTGAATTTTCTACAGTGAAC 207
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DB 2233 IleAspLeuGlnAlaGlnAspAlaArgIleThrArgLeu-----SerAsnAspArg 2249
OY 208 AAAGTCACTGACGAGTCAATCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 267
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2250 ArgLeuThrIleLeuAsnValThrGlnAsnAspGlnGlnTySerCysAlaGValLys 2269
OY 268 ACGGACCCCCACAGAGAGATTACACC--ACCATCAGACTCTGCTCCACAGTAA 324
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2270 AsnAspAlaGlyGlnAsnSerPheAspPhelysAlaThrValLeuValProProthIle 2289
OY 325 TTGATATGATATCCAGAAAGAC--ACGGCAGTTGAGGAGGAGGAGGAGGAGGAGGAG 381
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2290 IleMetLeuAspLysAspLysAsnLysThrAlaValGlnHisSerThrValThrLeuSer 2309
OY 382 TGTACTCATGCGCAGCAGCAGCAGCAGCAGCAGCAGGCTTCAAGAGG----- 432
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2310 CysProAla---ThrGlyLysProGlnProAlaProAlaIleThrThrPhelysAspGlyGlnAla 2328
OY 433 -----ACAGAGCACTCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 459
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DB 2329 IleHisIleGlnAsnIleAlaAspIleIleProAsnGlnGlyLeuAsnGly----- 2345
OY 460 GTGGAGAGAGTGGCGCAGCATGTACACTGTACCATGCTGCTGCTGAAGGTGCACAG 519
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2346 -----AsnGlnLeuLysIleThrArgIleLys 2354
OY 520 GAGGACGAGGGGGTCCCGGTGATCTGCCAGGTGAGCAGCAGCAGCAGCAGCAGCAGCAG 579
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2355 GlnGlyAspAlaGlyLysIleThrCysGlnAlaAspHisSerAla-----GlySerVal 2372
OY 580 CAGACCCAGCGCTACTAGAGTCAAGTAAACCCGCAAGTGCAT-----ATCCAG 630
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2373 GlnGlnAspValAsnValAsnValIleThrIleProLysIleGlnLysAspGlyIlePro 2392
OY 631 ATGACTTACCTCTGCAAGGCTAACCCGGAAGGGAGGAGGAGGAGGAGGAGGAGGAGGAG 690
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2393 SerAspTyrGlnSerGln-----GlnAsnGlnArgValValIleSerCysPro 2408
OY 691 GCCATGGGAGAGCCCGCTGTGATGTAACCTTGGGAGAGTGCATGATGTAAGTGCCT 750
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2409 ValThyAlaArgPro---ProAlaLysIleThrThrePleunLysAlaLysProLeuGln 2427
OY 751 CAACATCGCGTACTG-----TCTGGCCAAACCTGTTCATCAATAAAGCTAAAC 798
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DB 2428 SerAspLysPheValIleThrSerAlaAsnGlyGlnLysLeuThrePleunArg 2447
OY 799 AAACAGATTAAGGCTTACCCGCTGAGGCTTGAAGCTTCAACATAGTGGGAAGGCTCAT 858
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DB 2448 GlnThAspSerSerLysIleThrCysIleAlaThAsnGlnAlaGlyThAspLysArg 2467
OY 859 GAGTATATCTGTATATACGATCCCGCCACCAATATCCCTCCCT----- 903
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2468 AspPhelysValSerMetLeuValAlaProSerPheAspGlnProAsnIleValAlaArg 2487
OY 904 -----CCACACACACACACACACACACACACACACACACACACACACACAC 942
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2488 IleThValAsnSerGlyAsnProSerThrLeuHisCysProAlaLysGlySerProSer 2507
OY 943 ACCATCTTACCATCATCAGATTTCTCGACGAGGTGAA 981
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DB 2508 ProThrIleThrThrePleunAspGlyAsnAlaIleGln 2520
RESULT 2
T43290
hemictin precursor - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 18-Feb-2000
C:Accession: T43290; T20993; T24734
R:Voegel, B.E.; Hedgecock, E.M.
submitted to the EMBL Data Library, June 1998
A:Description: Hemictentin is required for hemidesmosome mediated cell adhesion and ge
A:Reference number: Z22396
A:Accession: T43290
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-5198 <V06>
A:Cross-references: EMBL:AF074901; PIDN:ANC26792.1
R:Stulson, J.
submitted to the EMBL Data Library, December 1994
A:Reference number: Z19355
A:Accession: T20993
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-5198 <W11>
A:Cross-references: EMBL:Z47068; PIDN:CAA87336.1; GSPDB:GN00028; CESP:FL1569.4b
A:Experimental source: clone F1569
R:Kershaw, J.
submitted to the EMBL Data Library, December 1994
A:Reference number: Z19929
A:Accession: T24734
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-5198 <W12>
A:Cross-references: EMBL:Z47070; PIDN:CAA87345.1; GSPDB:GN00028; CESP:FL1569.4b
A:Experimental source: clone T09B9
C:Genetics:
A:Gene: him-4; F1569.4b
A:Map position: x
A:Intons: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184
1; 2512/2; 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 303
1; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4902/1; 4964/1; 5034/1; 51
Alignment Scores:
Pred. No.: 4.16e-12 Length: 5198
Score: 261.50 Matches: 87
Percent Similarity: 43.06% Conservative: 65
Best Local Similarity: 24.65% Mismatches: 130
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OY 40 GTGACAGTGTATGAGCAAGTGGCAACCATGCTGCCAGGTCAATAAGTGCAC 99
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DB 2200 ValThralAlleySglYalAlaLeuProPhelysCysProIleSp-----AspSP 2217
OY 100 TCAGTATCCAGCTCTGAACCCCAACAGCAGACCATTTACTTCCAGGACTTCAGGCT 159
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2218 Lys-----AsnPhelysGlyGlnIleIleThrePleunArgSntYrGlnPro 2232
OY 160 TTG-----AAGACAGCAGGTTTCACTGCTGAATTTTCTACAGTGAAC 207
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2233 IleAspLeuGlnAlaGlnAspAlaArgIleThrArgLeu-----SerAsnAspArg 2249
OY 208 AAAGTCACTGACGAGTCAATCTGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 267
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2250 ArgLeuThrIleLeuAsnValThrGlnAsnAspGlnGlnTySerCysAlaGValLys 2269
OY 268 ACGGACCCCCACAGAGAGATTACACC--ACCATCAGACTCTGCTCCACAGTAA 324
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2270 AsnAspAlaGlyGlnAsnSerPheAspPhelysAlaThrValLeuValProProthIle 2289
OY 325 TTGATGATGATATCCAGAAAGAC--ACGGCAGTTGAGGAGGAGGAGGAGGAGGAGGAG 381

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GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus.n2p model

Run on: November 20, 2002, 07:40:00 ; Search time 15.5 Seconds
(without alignments)
5394.599 Million cell updates/sec

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Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 112892 seqs, 41476328 residues

Total number of hits satisfying chosen parameters: 225784

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Database: SwissProt_40:*

Prod. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	226.5	12.6	515	1 PVR1_PIG	O94176 sus scrofa
3	225.5	12.5	837	1 NCML_MOUSE	O35136 mus musculu
4	223	12.4	344	1 NRRI_RAT	O62718 rattus norv
5	222	12.3	530	1 PVR2_MOUSE	P32507 mus musculu
6	222	12.3	1092	1 NCAL_XENLA	P36335 xenopus lae
7	221.5	12.3	538	1 PVR2_HUMAN	O92692 homo sapien
8	220	12.2	337	1 G55A_CHICK	O98892 gallus gall
9	220	12.2	417	1 PVR_CERAE	P33526 cercopithe
10	218.5	12.1	517	1 PVR1_HUMAN	O15223 homo sapien
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12	215.5	11.9	837	1 NCML_MOUSE	O15394 homo sapien
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14	211	11.7	847	1 CD22_HUMAN	P20273 homo sapien
15	209.5	11.6	345	1 OPCM_BOVIN	P11834 bos taurus
16	209	11.6	1242	1 NRPN_MOUSE	O94287 mus musculu
17	208.5	11.6	353	1 CERU_CHICK	O90773 gallus gall
18	207.5	11.5	345	1 OPCM_HUMAN	O14982 homo sapien

19	207	11.5	1493	1 NEOL_MOUSE	P97798 mus musculu
20	206.5	11.4	862	1 CD22_MOUSE	P35329 mus musculu
21	204	11.3	702	1 CEAS_HUMAN	P06731 homo sapien
22	203	11.3	1461	1 NEOL_HUMAN	O92859 homo sapien
23	202	11.2	515	1 PVR1_HUMAN	O94176 mus musculu
24	202	11.2	1443	1 NEOL_CHICK	O90610 gallus gall
25	201.5	11.2	345	1 OPCM_RAT	P32736 rattus norv
26	199	11.0	338	1 LAMP_CHICK	O98919 gallus gall
27	198	11.0	1377	1 NEOL_RAT	P97603 rattus norv
28	197	10.9	583	1 C166_MOUSE	O61490 mus musculu
29	194.5	10.8	3707	1 PGBM_MOUSE	O05793 mus musculu
30	194	10.8	1091	1 NCAL_CHICK	P13590 gallus gall
31	193	10.7	761	1 NCAL_HUMAN	P13592 homo sapien
32	193	10.7	848	1 NCAL_HUMAN	P13591 homo sapien
33	192	10.6	1036	1 AXOL_CHICK	P28685 gallus gall
34	191.5	10.6	583	1 C166_MOUSE	O13740 homo sapien
35	190.5	10.6	1447	1 DCC_MOUSE	P70211 mus musculu
36	190	10.5	646	1 M018_HUMAN	P43121 homo sapien
37	189	10.5	853	1 NCAL_BOVIN	P31836 bos taurus
38	189	10.5	858	1 NCAL_RAT	P13596 rattus norv
39	188	10.4	588	1 C166_CHICK	P42292 gallus gall
40	187.5	10.4	338	1 LAMP_HUMAN	O13449 homo sapien
41	185.5	10.3	338	1 LAMP_RAT	O62813 rattus norv
42	185.5	10.3	764	1 ICCR_DROME	O08180 drosophila
43	185.5	10.3	1234	1 NRPN_RAT	O91044 rattus norv
44	185.5	10.3	1241	1 NRPN_HUMAN	O60500 homo sapien
45	182.5	10.1	2012	1 DSCA_HUMAN	O60469 homo sapien

ALIGNMENTS

RESULT 1

NCAL_XENLA STANDARD: PRT: 1088 AA.

AC P16170:
DT 01-APR-1990 (rel. 14, Created)
DT 01-APR-1990 (rel. 14, Last sequence update)
DT 15-JUN-2002 (rel. 41, Last annotation update)
DE Neural cell adhesion molecule 1, 180 kDa isoform precursor (N-CAM
DE 180).
CN NCAM1.
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae;
OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=90098871; PubMed=2481269;
RA Kriegl P.A., Sakaguchi D.S., Kintner C.R.;
RT "Primary structure and developmental expression of a large
RT cytoplasmic domain form of Xenopus laevis neural cell adhesion
RT molecule (NCAM)."
RT Nucleic Acids Res. 17:10321-10335(1989).
CC -! FUNCTION: THIS PROTEIN IS A CELL ADHESION MOLECULE INVOLVED IN
CC NEURON-NEURON ADHESION, NEURITE FASCICULATION, OUTGROWTH OF
CC NEURITES, ETC.
CC -! SUBCELLULAR LOCATION: Type I membrane protein.
CC -! ALTERNATIVE PRODUCTS: 2 isoforms: N-CAM 180 (shown here) and
CC N-CAM 140; are produced by alternative splicing.
CC -! TISSUE SPECIFICITY: EXPRESSED IN NEURON AND IN PRESUMPTIVE NEURAL
CC TISSUE.
CC -! DEVELOPMENTAL STAGE: THE MRNA ENCODING THIS LD-NCAM IS THE MAJOR
CC TRANSCRIPT PRESENT IN BOTH MATERNAL RNA AND IN THE EMBRYO DURING
CC EARLY NEURAL DEVELOPMENT.
CC -! SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
CC -! SIMILARITY: CONTAINS 5 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC -! SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LIKE DOMAINS.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way

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OM nucleic - protein search, using frame_plus_n2p model

Run on: November 20, 2002, 07:56:11 : Search time 8.5 Seconds
(without alignments)
3714.538 Million cell updates/sec

Title: US-09-778-187b-3_COPY_62_1069

Perfect score: 1804
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Searched: 100480 seqs, 15661496 residues

Total number of hits satisfying chosen parameters: 200960

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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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- 12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
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- 14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	1741	96.5	440	9	US-09-944-403-61

5	1741	96.5	440	9	US-09-944-896-61	Sequence 61, Appl
6	1741	96.5	440	10	US-09-866-028-61	Sequence 61, Appl
7	1741	96.5	440	10	US-09-944-449-61	Sequence 61, Appl
8	1741	96.5	440	10	US-09-944-457-61	Sequence 61, Appl
9	1741	96.5	440	10	US-09-944-862-61	Sequence 61, Appl
10	1741	96.5	440	10	US-09-945-587-61	Sequence 61, Appl
11	1741	96.5	440	10	US-09-945-015-61	Sequence 61, Appl
12	1741	96.5	440	10	US-09-944-396-61	Sequence 61, Appl
13	1741	96.5	440	10	US-09-944-097-61	Sequence 61, Appl
14	1741	96.5	440	10	US-09-944-432-61	Sequence 61, Appl
15	1741	96.5	440	10	US-09-943-762-61	Sequence 61, Appl
16	1741	96.5	440	10	US-09-944-654-61	Sequence 61, Appl
17	1741	96.5	440	10	US-09-943-851A-61	Sequence 61, Appl
18	1741	96.5	440	12	US-10-052-586-34	Sequence 34, Appl
19	1741	96.5	442	9	US-09-778-510-20	Sequence 20, Appl
20	1741	96.5	442	9	US-09-778-187b-2	Sequence 79, Appl
21	480.5	26.6	398	9	US-10-047-542-79	Sequence 79, Appl
22	480.5	26.6	398	9	US-09-778-510-4	Sequence 4, Appl
23	469.5	26.0	398	9	US-09-905-291A-84	Sequence 84, Appl
24	469.5	26.0	398	9	US-09-778-510-6	Sequence 6, Appl
25	469.5	26.0	398	9	US-09-778-187b-10	Sequence 10, Appl
26	469.5	26.0	398	10	US-09-745-763-102	Sequence 102, Appl
27	469.5	26.0	398	10	US-09-909-320-84	Sequence 84, Appl
28	469.5	26.0	398	10	US-09-909-088b-84	Sequence 84, Appl
29	467.5	25.9	432	9	US-09-778-510-2	Sequence 2, Appl
30	467.5	25.9	432	9	US-09-778-187b-8	Sequence 8, Appl
31	220	12.2	344	9	US-09-978-295A-523	Sequence 523, Appl
32	220	12.2	344	9	US-09-966-546-4	Sequence 4, Appl
33	220	12.2	344	9	US-09-966-546-6	Sequence 6, Appl
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36	210	11.6	1256	9	US-09-919-172-20	Sequence 20, Appl
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38	208	11.5	626	9	US-10-047-542-80	Sequence 80, Appl
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40	207	11.5	749	10	US-09-764-853-605	Sequence 605, Appl
41	204	11.3	734	10	US-09-756-851A-17	Sequence 17, Appl
42	203	11.3	737	10	US-09-925-301-1133	Sequence 1133, Appl
43	198	11.0	350	9	US-09-808-602-71	Sequence 71, Appl
44	193.5	10.7	582	9	US-09-736-457-334	Sequence 334, Appl
45	193	10.7	1395	9	US-09-808-602-67	Sequence 67, Appl

ALIGNMENTS

RESULT 1
US-09-778-510-22
Sequence 22, Application US/09778510
Patent No. US20020164686A1
GENERAL INFORMATION:
APPLICANT: Baum, Peter
TITLE OF INVENTION: Molecules Designated B7L1
FILE REFERENCE: 2844-US
CURRENT APPLICATION NUMBER: US/09/778, 510
CURRENT FILING DATE: 2001-02-07
PRIOR APPLICATION NUMBER: PCT/US99/17906
PRIOR FILING DATE: 1999-08-05
PRIOR APPLICATION NUMBER: 60/095, 663
PRIOR FILING DATE: 1998-08-07
NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 22
LENGTH: 423
TYPE: PRT
ORGANISM: Mus musculus
US-09-778-510-22

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Pred. No.: 1.31e-115
Score: 1765.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 97.84%
Length: 423
Matches: 336
Conservative: 0
Mismatch: 0
Indels: 0

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Db 241 GUGUGAALPAPALPhegluLeuthrCysgLuAlaIleGlyLysProGlnProValMetVal 260
OY 721 ACTTGCGTACAGTCGATGATGAATGCTCAACATCGCGTACTGTGGCCAAACCTG 780
Db 261 THTTTPVALTARGVALASPSPCLUMETPROGlnHISAlaValLeuSerfLYProAsnLeu 280
OY 781 TTCATCATTAACCTAAACAAACAGATAGCGTACTACCGGTGACGGCTTCGAACATA 840
Db 281 PheIleAsnAsnLeuAsnLysThrAspAsnGLYHTYArgCysgLuAlaSerfSnIle 300
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RESULT 3

US-09-944-413-61

Sequence 61, Application US/09944413

Patent No. US20020156004A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin

APPLICANT: Botstein, David

APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleone

APPLICANT: Filvaroff, Ellen

APPLICANT: Gertsen, Mary

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul

APPLICANT: Grimaldi, Christopher

APPLICANT: Gurney, Austin

APPLICANT: Hillan, Kenneth

APPLICANT: Kljavin, Ivar

APPLICANT: Napier, Mary

APPLICANT: Roy, Margaret

APPLICANT: Tumas, Daniel

APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

FILE REFERENCE: P2548PICI

CURRENT APPLICATION NUMBER: US/09/944,413

CURRENT FILING DATE: 2001-09-26

PRIOR APPLICATION NUMBER: 09/866,028

PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 60/067,411

PRIOR FILING DATE: December 3, 1997

PRIOR APPLICATION NUMBER: 60/069,334

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,335

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,278

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,425

PRIOR FILING DATE: December 12, 1997

PRIOR APPLICATION NUMBER: 60/069,696

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,694

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,702

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,870

PRIOR FILING DATE: December 17, 1997

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PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020156004A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Saplen
US-09-944-413-61
Alignment Scores:
Pred. No.: 6,11e-114 Length: 440
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conservative: 1
Best Local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: 9 Gaps: 0
US-09-778-187b-3_copy_62_1069 (1-1008) x US-09-944-413-61 (1-440)
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Db	37	IIlePrlrhlrglYsPglYglInAsnleuPhehrhrlYsAspYalThrValIIleGluglYglu	56
OY	61	GTGGCAACCATACGTGGCCAGTCATTAAGAGTAGAGCACTAGTATCCAGCTCTTGAA	120
Db	57	ValAlaThrIIleSerCysglInValAsnYsSerAspAspSerValIIleGlInleuAsn	76
OY	121	CCCAACAGGACGACCATTTACTTCAGGGACTTCAGGCTTTGAAGGACACAGTTTCAG	180
Db	77	ProAsnAlglInThrIIleTyrPhehrYsPhehrProleuYsAspSerAlglPheGl	96
OY	181	CTGCTGAATTTTTCTAGCAGTGAACATCAAGTGCACCTGACGAATGCTCAATCTCGAT	240
Db	97	LeuIeuAsnPheserSerSerGluIeuIeuYsValSerIeuThrAsnValSerIIleSerAsp	116
OY	241	GAAGGAGAACTTCTGCGACCTTACACGAGACCCCCACAGAGATTCACACCATC	300
Db	117	GluglYsAlglYrPheCysglInleuTyrThrAspProProglInglInSerTyrThrIIle	136
OY	301	ACAGCCCTGGTTCTCCACGTAATCTGATTCATTCATTCACGAAGAAGACAGCGAGTTGAA	360
Db	137	ThrValIeuValProProAlglAsnIeuMetIIleAspIIleGlInYsAspThrAlaValGlu	156
OY	361	GGGAGAGATTTGAAGTCAACTACTTATGCCATGGCCAGCAAGCCAGCAGACCATCAG	420
Db	157	GlYgluglInIIleGlInValAsnCysThrAlaMetAlaSerIysProAlaThrThrIIleArg	176
OY	421	TGGTTCAAGGGAACAAAGAACTCAAAAGCAAAACAGAGGGAGAGAGCTGTCGACATG	480
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OY	481	TACACTGTACACAGTCACTGATGCTGAAGGTGCACAAAGAGAGAGCAGGGGTCGCGTG	540
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OY	541	ATTCGCCAGGGGAGACCCCTGGCGGTCACTGGAAACCTGCAGACCCAGCGCTATCTGAA	600
Db	217	IIleCysglInValGlInhAspProAlaValThrGluYsIeuIeuGlInThrGlnAlaTyrIleGlu	236
OY	601	GTGCCGATTAACCGCAAGTGCATATCCAGATGACTTACCCTCGCAAGGCTCAACCCGG	660
Db	237	ValGlInTrIysProGlInValhIhIleGlInMetThrTyrProIeuGlInglYleuThrArg	256
OY	661	GAAGGGATGCATTTGAGATTACGTGTGAAAGCAATCGGGAAGCCCAAGCTGTGATGTA	720
Db	257	GluglYsAspAlaIeuGlInleuThrCysGlInAlaIIleGlYsProGlInProValMetVal	276
OY	721	ACTTGGGAGAGATCGATGATGAATGCTCCATACATCCGTAAGTGTGGGCCAAACCTG	780
Db	277	ThrTrpValArgValAspAspGluMetProGlInhIAsIaValIeuSerGluProAsnleu	296
OY	781	TTTCATCAATTAACCTAAACAAACAGATTAACGTAACCTTACCGCTGTGAGCTTCAACATA	840
Db	297	PheIIleAsnAsnleuAsnIeuYsThrAspAsnGluYrThrTyrArgCysglInAlaSerAsnIIle	316
OY	841	GTGGGAAGGCTCACTGGAGCATATATGCTGTATGATATACGATCCCCCAACTATACCT	900
Db	317	ValGlYsAlaIhIserAspTyrMetIeuTyrValTyrAspProProThrThrIIlePro	336
OY	901	CTCTCCCAACAAACACACACACACTACACACACACACACACACACACATCTTACATCATC	960
Db	337	ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr	980
OY	961	ACAGATTCTGAGCAGGTGAAGAGGGACCAATTTGGGCGACTGGACAC	1008
Db	357	ThrAspSerArgAlaIglYglInglInglYserIIleArgValaValAspAsnIhI	372

APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gertitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gunney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,403
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
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PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999


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: PRIOR APPLICATION NUMBER: PCT/US99/28409
: PRIOR FILING DATE: No. US200201651431a1ember 30, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28313
: PRIOR FILING DATE: No. US200201651431a1ember 30, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28301
: PRIOR FILING DATE: December 1, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/20095
: PRIOR FILING DATE: December 16, 1999
: PRIOR APPLICATION NUMBER: PCT/US00/03565
: PRIOR FILING DATE: February 11, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: February 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/05841
: PRIOR FILING DATE: March 2, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/08439
: PRIOR FILING DATE: March 30, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/14042
: PRIOR FILING DATE: May 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/20710
: PRIOR FILING DATE: July 28, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/32678
: PRIOR FILING DATE: December 1, 2000
: PRIOR APPLICATION NUMBER: PCT/US01/06520
: PRIOR FILING DATE: February 28, 2001
: NUMBER OF SEQ ID NOS: 120
: SEQ ID NO 61
: LENGTH: 440
: TYPE: PRT
: ORGANISM: Homo Sapien
US-09-944-403-61
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Alignment Scores:
Pred. No.: 6.11e-114      Length: 440
Score: 1741.00           Matches: 332
Percent Similarity: 99.11%      Conservative: 1
Best Local Similarity: 98.81%    Mismatches: 3
Query Match: 96.51%           Indels: 0
DB: 9                      Gaps: 0
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US-09-778-187b-3_copy_62_1069 (1-1008) x US-09-944-403-61 (1-440)

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DB 57 ValIleThrIleSerCysGlnValAsnLysSerAspSerValIleGlnLeuLeuAsn 76
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QY 121 CCCAACAGGACAGCATTTACTTACAGGACTTCAGGCTTTGAAAGACAGCAGTTTCAG 180
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DB 77 ProAsnArgGlnThrIleTyrPheArgAspPheArgProLeuLysAspSerArgPheGln 96
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QY 181 CTGCTGAATTTTCTAGCAGTGAACACAGTGTACTACCAATCTCTCAATCTCGGAT 240
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DB 97 LeuLeuAsnPheSerSerSerGluLeuLysValSerLeuThrAsnValSerIleSerAsp 116
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QY 241 GAAGGAGATACTTCTGCAGCTCTACAGGACCCCCACAGAGAGATTAACACCATC 300
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DB 117 GluGlyArgTyrPheCysGlnLeuTyrThrAspProGlnGlnSerIleThrThrIle 136
    |||
QY 301 ACAGTCTCTGTTCTCCACGTAATGATGATGATATCCAGAAAGACAGCAGTTGAA 360
    |||
DB 137 ThrValLeuValProProArgAsnLeuMetIleAspIleGlnLysAspThrAlaValGlu 156
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QY 361 GGGGAGGATGATGAAGTCAACTGTAAGTGGCCAGAGGACGAGGAGCATCAGG 420
    |||
DB 157 GlyGluGlnIleGluValAsnCysThrAlaMetAlaSerLysProAlaThrThrIleArg 176
    |||
QY 421 TGGTTCAAGGAGAACAGAACTCAAGAGCAATCAAGAGTGGAGAGTGTGCGACATG 480
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QY 481 TACACTGTACACCAAGTCAGTGTATGCTGAAGGTGCACAAAGAGGACGAGCGGTCCCGTG 540
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QY 541 ATCTGCACAGTGGAGACACCTCGGTCAGTGAAGAACTGCAGACCCAGCAGCTATCAGAA 600
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DB 217 TleCysGlnValGlnHisProAlaValThrGlyAsnLeuGlnThrGlnArgTyrLeuGln 236
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QY 601 GTGCAATATTAACCCGCAAGTGCATATTCAGATGACTTACCCCTCGCAAGCCTTAACCCGG 660
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DB 237 ValGlnTyrLysProGlnValHisIleGlnMetThrTyrProLeuGlnIleuThrArg 256
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QY 661 GAAGGAGATGATTTGAGTTAAAGCTGTGAAGCCATCGGAGAACCCGACCTGTGATGTA 720
    |||
DB 257 GluGlyAspAlaLeuGlnIleuThrCysGlnAlaIleGlyLysProGlnProValMetVal 276
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QY 721 ACTTGGGTGAGATGATGATGATGAATGACCTCAACATGCGCTACTGTGCGCAAACTCG 780
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DB 277 ThrTrpValArgValAspAspGlnMetCProGlnHisAlaValLeuSerGlyProAsnLeu 296
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DB 297 PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrTyrArgCysGlnAlaSerAsnIle 316
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RESULT 5
US-09-944-896-61
: Sequence 61, Application US/09944896
: Patent No. US20020168715A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Botstein, David
: APPLICANT: Baton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gerritsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Gurney, Austin
: APPLICANT: Hillan, Kenneth
: APPLICANT: Kijavio, Ivar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tumas, Daniel
: APPLICANT: Wood, William
: TITLE OF INVENTION: SECURED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE REFERENCE: P2548P1C1
: CURRENT APPLICATION NUMBER: US/09/944, 896
: PRIOR FILING DATE: 2001-08-31
: PRIOR APPLICATION NUMBER: 09/866, 028
: PRIOR FILING DATE: 2001-05-25
: PRIOR APPLICATION NUMBER: 60/069, 334
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069335
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069, 278
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069, 425
: PRIOR FILING DATE: December 12, 1997
: PRIOR APPLICATION NUMBER: 60/069, 696
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4	PRIOR APPLICATION NUMBER:	60/069,702	
5	PRIOR FILING DATE:	December 16, 1997	
6	PRIOR APPLICATION NUMBER:	60/069,870	
7	PRIOR FILING DATE:	December 17, 1997	
8	PRIOR APPLICATION NUMBER:	60/069,873	
9	PRIOR FILING DATE:	December 17, 1997	
10	PRIOR APPLICATION NUMBER:	60/068,017	
11	PRIOR FILING DATE:	December 18, 1997	
12	PRIOR APPLICATION NUMBER:	60/070,440	
13	PRIOR FILING DATE:	January 5, 1998	
14	PRIOR APPLICATION NUMBER:	60/074,086	
15	PRIOR FILING DATE:	February 9, 1998	
16	PRIOR APPLICATION NUMBER:	60/074,092	
17	PRIOR FILING DATE:	February 9, 1998	
18	PRIOR APPLICATION NUMBER:	60/075,945	
19	PRIOR FILING DATE:	February 25, 1998	
20	PRIOR APPLICATION NUMBER:	60/112,850	
21	PRIOR FILING DATE:	December 16, 1998	
22	PRIOR APPLICATION NUMBER:	60/113,296	
23	PRIOR FILING DATE:	December 22, 1998	
24	PRIOR APPLICATION NUMBER:	60/146,222	
25	PRIOR FILING DATE:	July 28, 1999	
26	PRIOR APPLICATION NUMBER:	PCT/US99/19330	
27	PRIOR FILING DATE:	September 16, 1998	
28	PRIOR APPLICATION NUMBER:	PCT/US98/235108	
29	PRIOR FILING DATE:	December 1, 1998	
30	PRIOR APPLICATION NUMBER:	09/216,021	
31	PRIOR FILING DATE:	December 16, 1998	
32	PRIOR APPLICATION NUMBER:	09/218,517	
33	PRIOR FILING DATE:	December 22, 1998	
34	PRIOR APPLICATION NUMBER:	09/254,311	
35	PRIOR FILING DATE:	March 3, 1999	
36	PRIOR APPLICATION NUMBER:	PCT/US99/12252	
37	PRIOR FILING DATE:	June 22, 1999	
38	PRIOR APPLICATION NUMBER:	PCT/US99/21090	
39	PRIOR FILING DATE:	September 15, 1999	
40	PRIOR APPLICATION NUMBER:	PCT/US99/28409	
41	PRIOR FILING DATE:	No. US20020168715a1ember 30, 1999	
42	PRIOR APPLICATION NUMBER:	PCT/US99/28313	
43	PRIOR FILING DATE:	No. US20020168715a1ember 30, 1999	
44	PRIOR APPLICATION NUMBER:	PCT/US99/28301	
45	PRIOR FILING DATE:	December1, 1999	
46	PRIOR APPLICATION NUMBER:	PCT/US99/30095	
47	PRIOR FILING DATE:	December 16, 1999	
48	PRIOR APPLICATION NUMBER:	PCT/US00/003565	
49	PRIOR FILING DATE:	February 11, 2000	
50	PRIOR APPLICATION NUMBER:	PCT/US00/04414	
51	PRIOR FILING DATE:	February 22, 2000	
52	PRIOR APPLICATION NUMBER:	PCT/US00/05841	
53	PRIOR FILING DATE:	March 2, 2000	
54	PRIOR APPLICATION NUMBER:	PCT/US00/08439	
55	PRIOR FILING DATE:	March 30, 2000	
56	PRIOR APPLICATION NUMBER:	PCT/US00/14042	
57	PRIOR FILING DATE:	May 22, 2000	
58	PRIOR APPLICATION NUMBER:	PCT/US00/20710	
59	PRIOR FILING DATE:	July 28, 2000	
60	PRIOR APPLICATION NUMBER:	PCT/US00/32678	
61	PRIOR FILING DATE:	December 1, 2000	
62	PRIOR APPLICATION NUMBER:	PCT/US01/06520	
63	PRIOR FILING DATE:	February 28, 2001	
64	NUMBER OF SEQ ID NOS:	120	
65	SEQ ID NO 61		
66	LENGTH:	440	
67	TYPE:	PRT	
68	ORGANISM:	Homo Sapien	
69	US-09-944-896-61		
70	Alignment Scores:		
71	Pred. No.:	6,11e-114	Length: 440.00
72	Score:	1741.00	Matches: 3322

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Db 357 Thraspseratrgalaglygluigluclyserileargalvalasphls 372

RESULT 6
US-09-866-028-61
: Sequence 61, Application US/09866028
: Patent No. US20020058309A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Bolstein, David
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gerlitsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Guiney, Austin
: APPLICANT: Hillen, Kenneth
: APPLICANT: Kijavlin, Ivar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tumas, Daniel
: APPLICANT: Wood, William
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: ACIDS ENCODING THE SAME
: FILE REFERENCE: P2548P1
: CURRENT APPLICATION NUMBER: US/09/866,028
: CURRENT FILING DATE: 2001-05-25
: Prior application data removed - consult PAM or file wrapper
: NUMBER OF SEQ ID NOS: 120
: SEQ ID NO 61
: LENGTH: 440
: TYPE: PRT
: ORGANISM: Homo sapien
US-09-866-028-61

Alignment Scores:
Pred. No.: 6,11e-114 Length: 440
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conservative: 1
Best local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: 10 Gaps: 0

US-09-778-187B-3_COPY_62_1069 (1-1008) x US-09-866-028-61 (1-440)

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QY 61 GTGCAACACATCACCTCGCAGCGGTCAATTAAGAGTACACACATCAGAGATCGACCTCGAAC 120
Db 57 ValAlaThrIleSerCYsgInValAsnLysSerAspSperValIleGlnleuAsn 76
QY 121 CCCAAGCAGCAGACATTACTTACCTCAGGAGCTTCAGGCCCTTTGAAGACACAGATTTCAG 180
Db 77 ProAsnArvgInThrlIeTyPheArGAspPheArgrProleuLysAspSerArGpHeGln 96
QY 181 CTGCTGAATTTTTTACGACGTGAACCTAAAGTGTCACTGACGAATGTCTCAATCTGGAT 240
Db 97 LeuLeuSnPheSerSerSerGlnleuLysValSerleuThrsAlnValSerIleSerAsp 116
QY 241 GAAGGAGATCTCTCGCAGCTCTACAGGAGCCGCCACAGGAGATTACACACATC 300
Db 117 GluGlyArGlyrPheCYsgInleuTyThrAspProGlnGlnSerTyThrThrIle 136
QY 301 ACAGTCTCTGTTCCCTCCACAGTAACTTGATGATGCATATCCAGAAAGACAGCGAGTTGAA 360
Db 137 ThrValleuValProProArGAsnleuMetIleAspIleGlnLysAspThrAlaValGlu 156
QY 361 GGGAGAGAGATTGAAGTCAACTGACTGACCATGGCCACGACGAGCAGCAGACCATCAGG 420
Db 157 GlyIuGlnIleGluValAsnCYsThrAlaMetLAserLysProAlaThrThrIleArG 176

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Db	197	TyrThrValThrSerGlnLeuMetLeuLysValHisIstYsgIunspAspGlyValProVal	216
Oy	541	ATTCGCAGGTGAGAACCCCTCGCGTCACTGGAAAACCTGCAGAACCCAGCCGCTATTGAAG	600
Db	217	IleCysGlnValGIunHISProAlaValThrCgLYsnLeuGIunThrGlnAtGTYrLeuGIu	236
Oy	601	GTCGAGTATAACCCGCAAGTGCATATCCAGATGACTTAACCTCTGCAGAGCCCTAACCCGG	660
Db	237	ValGlnTYrLysProGlnValHisIstGlMetHrTYrProLeuGlnGIuTYrThrArg	256
Oy	661	GAAGGGGATGGCATTTGAGATTACCTGTGGAAGCCATCGGAAGCCCCGCGCTGATGGTGA	720
Db	257	GIuGLyspalalaLeuGIuLeuThrCYSGluAlaIleGlyLysProGlnProValMetVal	276
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Db	277	ThrTrpValArgValAspAspGluMetProGlnHisAlaValLeuSerGIyProasnLeu	296
Oy	781	TTTCATCAATTAACCTTAACAAACAAACGATTAAGGGTACTTAACCGCTGTGAGGCTTCCACATA	840
Db	297	PheIleAsnAsnLeuAsnLysThrAspAsnGIyThrTYrArgCYSGluAlaSerAsnIle	316
Oy	841	GTGGAAAGGCTCATTTGGAGCATATATCTGTATGTATACAGATCCCCCACACACTATCCCT	900
Db	317	ValGIySalahIsSerAspTYrMetLeuTYrValTYrAspPropioTHrIlePro	336
Oy	901	CCTCCACACAAACACCACCACCTACGACACACACACACACACACCATCTTACCATCATC	960
Db	337	ProPioTHrTHrTHrTHrTHrTHrTHrTHrTHrTHrTHrTHrTHrTHrTHrTHrIleuTHrIle	356
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Sequence 61, Application US/09944449			
Patent No. US20020102647A1			
GENERAL INFORMATION:			
APPLICANT: Baker, Kevin			
APPLICANT: Botstein, David			
APPLICANT: Baton, Dan			
APPLICANT: Ferrara, Napoleone			
APPLICANT: Filvaroff, Ellen			
APPLICANT: Gerritsen, Mary			
APPLICANT: Goddard, Audrey			
APPLICANT: Godowski, Paul			
APPLICANT: Grimaldi, Christopher			
APPLICANT: Gurney, Austin			
APPLICANT: Hillan, Kenneth			
APPLICANT: Kijavlin, Ivar			
APPLICANT: Napier, Mary			
APPLICANT: Roy, Margaret			
APPLICANT: Tumas, Daniel			
APPLICANT: Wood, William			
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC			
TITLE OF INVENTION: ACIDS ENCODING THE SAME			
FILE REFERENCE: P2548P1C1			
CURRENT APPLICATION NUMBER: US/09/944, 449			
CURRENT FILING DATE: 2001-09-26			
PRIOR APPLICATION NUMBER: 09/866, 028			
PRIOR FILING DATE: 2001-05-25			
PRIOR APPLICATION NUMBER: 60/067,411			
PRIOR FILING DATE: December 3, 1997			
PRIOR APPLICATION NUMBER: 60/069, 334			
PRIOR FILING DATE: December 11, 1997			

;; PRIOR APPLICATION NUMBER: 60/069335
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;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: NO. US20020102647A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: NO. US20020102647A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
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;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 61
;; LENGTH: 440

;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-449-61
Alignment Scores:
Pred. No.: 6,11e-114
Score: 1741.00
Percent Similarity: 99.11%
Best Local Similarity: 98.81%
Query Match: 96.51%
DB: 10
Gaps: 0
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RESULT 9
US-09-944-862-61
Sequence 61, Application US/09944862
Patent No. US2002015145A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gertlisen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME

FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944, 862
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067, 411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069, 334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 335
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PRIOR APPLICATION NUMBER: 60/069, 278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 425
PRIOR FILING DATE: December 12, 1997
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PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068, 017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070, 440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074, 086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074, 092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075, 945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112, 850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113, 296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146, 222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216, 021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218, 517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254, 311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US2002015145A1 December 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US2002015145A1 December 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000

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; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-862-61

Alignment Scores:
Pred. No.: 6,11e-114 Length: 440
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conserved: 1
Best Local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: 10 Gaps: 0

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DB 237 VALGINTYRILYERPROGLNVALHLSILEGIMETHTYRPROLEUGNLGILEUTHRIARG 256
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RESULT 10
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; Sequence 61, Application US/09945587
; Patent No. US20020127643A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gertlson, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavio, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,587
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
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; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092

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1  PRIOR FILING DATE: February 9, 1998
2  PRIOR APPLICATION NUMBER: 60/075,945
3  PRIOR FILING DATE: February 25, 1998
4  PRIOR APPLICATION NUMBER: 60/112,850
5  PRIOR FILING DATE: December 16, 1998
6  PRIOR APPLICATION NUMBER: 60/113,296
7  PRIOR FILING DATE: December 22, 1998
8  PRIOR APPLICATION NUMBER: 60/146,222
9  PRIOR FILING DATE: July 28, 1999
10 PRIOR APPLICATION NUMBER: PCT/US98/19330
11 PRIOR FILING DATE: September 16, 1998
12 PRIOR APPLICATION NUMBER: PCT/US98/25108
13 PRIOR FILING DATE: December 1, 1998
14 PRIOR APPLICATION NUMBER: 09/216,021
15 PRIOR FILING DATE: December 16, 1998
16 PRIOR APPLICATION NUMBER: 09/218,517
17 PRIOR FILING DATE: December 22, 1998
18 PRIOR APPLICATION NUMBER: 09/254,311
19 PRIOR FILING DATE: March 3, 1999
20 PRIOR APPLICATION NUMBER: PCT/US99/12252
21 PRIOR FILING DATE: June 22, 1999
22 PRIOR APPLICATION NUMBER: PCT/US99/21090
23 PRIOR FILING DATE: September 15, 1999
24 PRIOR APPLICATION NUMBER: PCT/US99/28409
25 PRIOR FILING DATE: No. US20020127643A1ember 30, 1999
26 PRIOR APPLICATION NUMBER: PCT/US99/28301
27 PRIOR FILING DATE: December 1, 1999
28 PRIOR APPLICATION NUMBER: PCT/US99/30095
29 PRIOR FILING DATE: December 16, 1999
30 PRIOR APPLICATION NUMBER: PCT/US00/03565
31 PRIOR FILING DATE: February 11, 2000
32 PRIOR APPLICATION NUMBER: PCT/US00/04414
33 PRIOR FILING DATE: February 22, 2000
34 PRIOR APPLICATION NUMBER: PCT/US00/05841
35 PRIOR FILING DATE: March 2, 2000
36 PRIOR APPLICATION NUMBER: PCT/US00/08439
37 PRIOR FILING DATE: March 30, 2000
38 PRIOR APPLICATION NUMBER: PCT/US00/14042
39 PRIOR FILING DATE: May 22, 2000
40 PRIOR APPLICATION NUMBER: PCT/US00/20710
41 PRIOR FILING DATE: July 28, 2000
42 PRIOR APPLICATION NUMBER: PCT/US00/32678
43 PRIOR FILING DATE: December 1, 2000
44 PRIOR APPLICATION NUMBER: PCT/US01/06520
45 PRIOR FILING DATE: February 28, 2001
46 NUMBER OF SEQ ID NOS: 120
47 SEQ ID NO 61
48 LENGTH: 440
49 TYPE: PRT
50 ORGANISM: Homo Sapien
51 US-09-945-587-61
52
53 Alignment Scores:
54 Pred. No.: 6,11e-114 Length: 440
55 Score: 1741.00 Matches: 332
56 Percent Similarity: 99.11% Conservative: 1
57 Best Local Similarity: 98.81% Mismatches: 3
58 Query Match: 96.51% Indels: 0
59 DB: 10 Gaps: 0
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QY	181	CTGCTCAATTTTCTTACAGAGTAACCTCAAAAGTGTACTACAGCAATGTCTCAATCTCGAT	240
Db	97	LeuLeuAsnPhSerSerSerSerSerIleuLeuLysValSerLeuThrAsnValSerIleSerAsp	110
QY	241	GAAGGAGATACTCTGTGCCAGCTCTACAGGAGCCCCACAGAGAGATTACACCAACATC	300
Db	117	GlnGlyArgTyrPheCysGlnLeuTyrThrAspProGlnGlnSerTyrThrThrIle	136
QY	301	ACAGTCCTTGTTCCCTCCACGTAACCTTGTGATCCGATATCCAGAAAAGACGGGAGTTGAA	360
Db	137	ThrValLeuValProProArgAsnLeuMetIleAspIleGlnLysAspThrAlaValGlu	156
QY	361	GGGAGAGAGATTGAAGTCAACTGTACTCGCATGGCCAGCACAGCCAGCAGCAACCATCAGG	420
Db	157	GlyGlnGlnIleIleGlnValAsnCysThrAlaMetAlaSerLysProAlaThrThrIleArg	176
QY	421	TGGTTCAAAAGGAGACAGAAAGTAACCAAGCAATTCAGAGGTGAGAGAGTGTGCGACATG	480
Db	177	TyrPheLysGlyAsnThrGlnLeuLysGlyLysSerGlnValGlnGlnTyrSerAspMet	196
QY	481	TACACTGTGTACCACTGACGTGATCTGTGAAGTGCACAAAGAGACAGAGGGGTCCGGTG	540
Db	197	TyrThrValThrSerGlnLeuMetLeuLysValHisLysGlnAspAspGlyValProVal	216
QY	541	ATCTCGCAGAGGTGACACCCCTGGCGGTCACTGGAAACCTGCAGACCCAGCGGTATCTGAA	600
Db	217	IleCysGlnValGlnHisProAlaThrThrLysAsnLeuGlnThrGlnAlaArgTyrLeuGln	236
QY	601	GTCCAGATTAAACCCGACAGTGCATATCCAGATGACTTACCCTCTGCAGAGGCTTAACCCGG	660
Db	237	ValGlnTyrLysProGlnValHisIleIleMetThrTyrProLeuGlnGlyLeuThrArg	256
QY	661	GAAGGGAGATGCAATTGAGATTAACTGTGAGACCATCGGGAAAGCCCAAGCTGTGATGTA	720
Db	257	GlnGlyAspAlaLeuGlnLeuThrCysGlnAlaIleGlyLysProGlnProValMetVal	276
QY	721	ACTTGGGGAGAGTGTGATGATGAATAAGCTCCACATCGCCATCGTGTGGGCCAAACTGG	780
Db	277	ThrThrPvalAlaGValAspAspGlnMetProGlnHisAlaValLeuSerGlyProAsnLeu	296
QY	781	TTCATCAATTAACTTAACAAACACAGATTAACGGTACTTAACCGCTGTGAGGCTCCACATA	840
Db	297	PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrArgCysGlnAlaSerAsnIle	316
QY	841	GTCGGAAGGCTCATTCGGCACTATATGCTGTATGTATATACGATCCCCACAACTATCCCT	900
Db	317	ValGlyLysAlaHisSerAspTyrMetLeuTyrValTyrAspProProThrThrIlePro	336
QY	901	CTTCCCAACAAACACCAACACACACATACCAACCAACCAACCAACCAACCAACCAACCAATC	960
Db	337	ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIle	356
QY	961	ACAGATTCTCGACGAGGTGAAGAGGGGAGCCATTGGGGCAGTGAGCAC	1008
Db	357	ThrAspSerArgAlaGlyGlnGlyGlySerIleArgAlaValAspHis	372
RESULT 11			
US-09-945-015-61			
: Sequence 61, Application US/09945015			
: Patent No. US20020132768A1			
: GENERAL INFORMATION:			
: APPLICANT: Baker, Kevin			
: APPLICANT: Botstein, David			
: APPLICANT: Eaton, Dan			
: APPLICANT: Ferrara, Napoleone			
: APPLICANT: Filvaroff, Ellen			
: APPLICANT: Gerltsen, Mary			
: APPLICANT: Goddard, Audrey			
: APPLICANT: Godowski, Paul			
: APPLICANT: Grimaldi, Christopher			

APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/945,015
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US2002013768A1
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US2002013768A1
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565

PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
NUMBER OF SEQ ID NOS: 120
SEQ ID NO: 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-945-015-61
Alignment Scores:
Pred. No.: 6,11e-114 Length: 440
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conservative: 1
Best Local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: 10 Gaps: 0
US-09-778-187B-3_COPY_62_1069 (1-1008) x US-09-945-015-61 (1-440)
QY 1 ATCCCGACAGGTGATGAGACAGATCTGTTACTAAAGAGTGACAGTGAAGAGAA 60
DB 37 IIEPOTHGCLYASPOLYGLNLSNLEUPHETHTRLYSASPVALLHGLGLGLGL 56
QY 61 GTGGACCATCAGCTGCCAGGCTCAATAAGTGACGACTGATGATCCAGCTCGA 120
DB 57 VALAIAHTRILLESERCSGLNVALSNLYSSERASPSERVALLEGILNLEUANA 76
QY 121 CCCAACGACGACCATCTTACTTCAGGGACTTCAGGCTTGAAGACGAGGTTTCAG 180
DB 77 PROASARGLNHTRILLEYRPHENARGASPPHEATGPROLEULYSSESRATGPH 96
QY 181 CTGCTGAATTTTTCAGAGTGAAGTCAAGTGTCACTGACGAAATGTCATTCGAT 240
DB 97 LEULEASNPHESESRSESRGTLEULYSVALSERLEUTHASVALSERILLESER 116
QY 241 GAAGGAGATCTTGTGCAGCTCTACAGGACCCGCCACAGAGAGATTACACCCATC 300
DB 117 GLUGLYARGTYRPHCYSGNLNLEUTYRTHRAAPROGLNGLUSERYRTHRTH 136
QY 301 ACAGTCCGTGCTTCCTCCAGTAACTGATGATGATATCCAGAAAGACCGCAGTGA 360
DB 137 THNVALLEUVALPROBROFASNLNLEUKILLASPILEGILNLYSPHRLAVAL 156
QY 361 GGGAGAGAGATTGAAGTCAAGTGTACTGCCATGGCCAGCAGCAGCAGCATCAG 420
DB 157 GLYGLUGLILLEGILVALSNLYSTHRLALAMETALASERLYSPROALHTRHRL 176
QY 421 TGGTTCAAAGGAGAACGAACTCAAGGCAAAATCAGAGGTGAGAGGTGCGCATG 480
DB 177 TRPHLYSGLYASNTHRLGILNLEULYSGLYSSERGLVALIGLUNTRPERASPM 196
QY 481 TACACGTGACAGTCAGTGTGATGCTGAAGGTGACCAAGAGAGACGCGGTCCGG 540
DB 197 TYRTHVALTHRSERGLNLEUMETLEULYSVALHLSLVSGLIASPSPSIYVALPRO 216
QY 541 ATCTGCGAGGTGAGACACCTCGGTCACTGGAACCTGACAGCAGCGCTATCTAGA 600
DB 217 IIECYSGNLVALIGLHLSRPROALVALHTRGLYASNLEUGLINTHCLNARGYRL 236
QY 601 GTGACGATATTAACCGCAAGTCAATTCAGATGACTTACCTCTGCAAGCGCTAAC 660

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Db 237 ValGlnTrpysProGlnValHisIleGlnMetThrTrpProLeuGlnGlyLeuThrArg 256
QY 661 GAAGGGATCATTTGAGTAAACGTGTGAAGCCATCGGAAGCCAGCCTTGATGTA 720
Db 257 GlnGlyAspAlaLeuGlnLeuThrCysGlnAlaIleGlyLysProGlnProValMetVal 276
QY 721 ACTTGGGTGAGCTCGATGATGAATGCCCAACATGCCCTACTGTCGGCCAAACCTG 780
Db 277 ThrTrpValArgValAspAspGlnMetProGlnHisAlaValLeuSerGlyProAsnLeu 296
QY 781 TTGATCAATACCTAAACAAACAGATACGGTACTACCGCTGTGAGGCTTCACATA 840
Db 297 PheIleAsnIleuAsnIleuSlnTrpAspAsnGlyThrTrpArgCysGlnAlaSerAsnIle 316
QY 841 GTGGAAAGGCTATTCGCGCTATATGCTGATATACGATCCGCCACACTATCCCT 900
Db 317 ValGlyLysAlaHisSerAspTrpMetLeuTrpValTrpAspProProThrIlePro 336
QY 901 CATTCCACAACACACACACACACACACACACACACACACACATCTTACCATCATC 960
Db 337 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrIleLeuIleIle 356
QY 961 ACAGATTCTGACAGCTGTAAGGGGACCATTTGGGCGACTGCACAC 1008
Db 357 ThrAspSerArgAlaGlyGlnGlnGlnGlnSerIleArgAlaValAspHis 372

RESULT 12

US-09-944-396-61

Sequence 61. Application US/09944396

Patent No. US20020132981A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin

APPLICANT: Botstein, David

APPLICANT: Baton, Dan

APPLICANT: Ferrara, Napoleone

APPLICANT: Filvaroff, Ellen

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul

APPLICANT: Grimaldi, Christopher

APPLICANT: Gurney, Austin

APPLICANT: Hillman, Kenneth

APPLICANT: Kijavlin, Ivar

APPLICANT: Napier, Mary

APPLICANT: Roy, Margaret

APPLICANT: Tumas, Daniel

APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

FILE REFERENCE: P2548P1C1

CURRENT APPLICATION NUMBER: US/09/944,396

CURRENT FILING DATE: 2001-09-26

PRIOR APPLICATION NUMBER: 09/866,028

PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 60/067,411

PRIOR FILING DATE: December 3, 1997

PRIOR APPLICATION NUMBER: 60/069,334

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,335

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,278

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069,425

PRIOR FILING DATE: December 12, 1997

PRIOR APPLICATION NUMBER: 60/069,696

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,694

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,702

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,870

PRIOR FILING DATE: December 17, 1997

PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020132981A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020132981A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-396-61

Alignment Scores:
Pred. No.: 6,11e-114 Length: 440
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conservative: 1
Best Local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: 10 Gaps: 0

US-09-778-187B-3_COPY_62_1069 (1-1008) x US-09-944-396-61 (1-440)

PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020133675A1member 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-097-61

Alignment Scores:

Pred. No.: 6, 11e-114 Length: 440
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conservative: 1
Best Local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: 10 Gaps: 0

US-09-778-187b-3_COPY_62_1069 (1-1008) x US-09-944-097-61 (1-440)

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Db 57 VALALATHRLLESERCYSGLNVALASNLYSSERASPSPSERVALILEGLNLEUASN 76
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Db 77 PROASHRGILNTHRLIETLYRPHETGASPLHEATGPROLEULYSASPSEATGPHGLN 96
QY 181 CTGCTGAATTTTCTAGAGTGAACCAAGTGTCACTGACGAGTATCTCAATCTCGAT 240
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Db 97 LEULEASNPHESERSESRERGLULEULYSVALSERLEUHRNSVALSERLIESERASP 116
QY 241 GAAGGAGATCTTCTGCCAGCTCTACAGGACCCCCACAGAGAGATTACACCACCATC 300
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Db 117 GUGLGLYARGLYRPHESYGLNLEULYRTHASPRPROGLNGLUSERLYRTHRLILE 136
QY 301 ACAGTCTGCTTCCTCAGCTAGTATGATGATGATATCCAGAAACACGAGCTTGA 360
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Db 137 THVALLEULVALPROPROATGASNLEUMETILEASPLLEGLNLYSASPLHRLAVALGLN 156
QY 361 GGGGAGAGATTGCACTGACTGATGCTGATGCGCCAGCAGCAGCAGCAGCAGCAGCAG 420
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Db 157 GLYGLUGLILILEGLVALASNYSRTHALAMELALSERLYSPROALATHRLHLEARG 176
QY 421 TGGTTAAAGGAGCAAGGAGCAAGCAAAATGAGAGTGAGAGAGTGGTGGCAGATG 480
|||||
Db 177 TRPHELYSGLYASNTHRGILEULYSGLYLSERGLVALGLNGLNTRPSEARASPMET 196
QY 481 TACACTGTACCACTGAGTGAAGTGTGAGAGTGTGACAAAGAGAGACGAGCGGCTCCGGG 540
|||||

Db 197 TYRTHVALIHRSERGLNLEUMETLEULYSVALHISLYSLNUSPSPGLYVALPROVAL 216
QY 541 ATGTGCCAGGTGAGACACCGTGGTCACTGAGAAACCTGACAGCCAGCCTATTCTAGAA 600
|||||
Db 217 ILECYSLNVALGLNHSRPROALVALTHRGLYASNLEULNTHRGINAGTYRLEGLN 236
QY 601 GTGCAGTATPAAACCGCAGTGCATATCCAGATGACATTAACCTTGCAGAGCCTPAAACCGG 660
Db 237 VALGLNLYRSPROGLNVALHISLIEGLNMEETHRYRPROLEUNGINGLYLEUTHARG 256
QY 661 GAAGGGATGATTTTGAAGTGAAGTGAAGCAGTGGGAGGAGCCAGCCTGTGAGTGA 720
Db 257 GLUGLYSPALALEUGLULEUTHRYRSGLYLALALEGLYLSRPROGLNPROVALMETVAL 276
QY 721 ACTTGGGTGAGAGTGCATGATGAATGCTCAACATGCCCTAGTGTGGGCCAAACTG 780
Db 277 THTRTPALARGVALASPARGLNMEPROGLNHSALVALLEUSERGLYPROASNLEU 296
QY 781 TTGATCATATACCTTAACAAACAGATACGGTACTTACCGCTGTGAGGCTTCCAAACATA 840
Db 297 PHEILEASNLEULASNLYSRTHASPARSNGLYTHRYRARGYSGLYLALASERASNILE 316
QY 841 GTGGAAAGGCTCATCGGACTATGCTGATATGATATGATATGATATGATATGATATGAT 900
Db 317 VALGLYSLALHISSESRAPRYRMELEUTHRYRVALTRYRSPROTHRLHLEPRO 336
QY 901 CCTCCCAAC 960
Db 337 PROPTHRLTHRLTHRLTHRLTHRLTHRLTHRLTHRLTHRLTHRLTHRLTHRLTHRLTH 356
QY 961 ACAGATTCTGACAGGTGAGAGGAGGACCATTTGGGCGACTGAGACAC 1008
Db 357 THRASPERARGALGLYGLNGLYLSERLIEARGALVALASPHIS 372
RESULT 14
US-09-944-432-61
Sequence 61, Application US/09944432
Patent No. US20020142419A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: KJavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,432
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
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PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
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PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020142419A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020142419A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Saplen
US-09-944-432-61
Alignment Scores:
Pred. No.: 6,11e-114 Length: 440
Score: 1741.00 Matches: 332

Percent Similarity: 99.11% Conservative: 1
Best Local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: 10 Gaps: 0
US-09-778-187b-3_copy_62_1069 (1-1008) x US-09-944-432-61 (1-440)
QY 1 ATCCCAACAGGATGATGAGACAGATCTGTTTAAAGACGTGACATGATTGAAGAGAA 60
Db |||||||
Db 37 lIeProthrglYsPlglnsnleuPhetHrLysAspValThrValIleGluclyGln 56
QY 61 GTGGCAACCATCGTCGACGATTAAGAGACAGACAGTGAAGTCCAGCTCCGAC 120
Db |||||||
Db 57 ValAlaThrIleSerCysGlnValAsnLysSerAspAspSerValIleGlnLeuAsn 76
QY 121 CCCAAGCAGACACATTTACTTCAGGACCTTCAGGCTTTGAAGACAGCAGGTTTCA 180
Db |||||||
Db 77 ProAsnArgGlnThrIleThrLeuArgAspPhaArgProLeuLysAspSerArgPheGln 96
QY 181 CTGCTGAATTTTCTAGACAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 240
Db |||||||
Db 97 LeuLeuAsnPheserSerSerGlnLeuLysValSerLeuThrAsnValSerIleSerAsp 116
QY 241 GAAGGAGATCTTCGCGACCTTCACGACGCCCCACAGAGATTACACACATC 300
Db |||||||
Db 117 GluGlyArgGlyPheCysGlnLeuTyrrHAspProGlnIleSerTyrrHrHrIle 136
QY 301 ACAGTCTGCTTCCTCAGCATTAATGATGATGATGATGATGATGATGATGATGATG 360
Db |||||||
Db 137 ThrValLeuValProProArgAsnLeuMetIleAspIleGlnLysAspThrAlaValGlu 156
QY 361 GGGGAGAGATTGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 420
Db |||||||
Db 157 GluGluGlnIleGlnValAsnCysThrAlaMetAlaSerLysProAlaThrHrIleArg 176
QY 421 TGCTTAAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAG 480
Db |||||||
Db 177 TrpPheLysGlnsnHrGlnLeuLysGlyLysSerGlnValGluGlnTrpSerAspMet 196
QY 481 TTAACGTGACAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 540
Db |||||||
Db 197 TyrrHrValThrSerGlnLeuMetLeuLysValHnIleLysGlnAspArgValProVal 216
QY 541 ATGTCCAGGTGAGACACCTCGGCTCACTGGAACCTGCAAGCCAGCCTATCTGA 600
Db |||||||
Db 217 IleCysGlnValIleHnIleProAlaValThrGlyAsnLeuGlnThrGlnAlaGlyLeuGln 236
QY 601 GTGCATATTAACCGCAAGTCAATCCAGATGATGATGATGATGATGATGATGATG 660
Db |||||||
Db 237 ValGlnTyrrLysProGlnValHnIleGlnMetHrTyrrProLeuGlnGlyLeuThrArg 256
QY 661 GAAGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 720
Db |||||||
Db 257 GluGlyAspAlaLeuGlnLeuThrCysGlnAlaIleLeuLysProGlnProValMetVal 276
QY 721 ACTTGGGTGAGATCGATGATGATGATGATGATGATGATGATGATGATGATGATG 780
Db |||||||
Db 277 ThrThrValArgValAspAspGlnMetProGlnHnIleValIleuSerGlyProAsnLeu 296
QY 781 TTGATCAATTAACCTTAACCAAGATTAAGGATTAACCGCTGAGGCTTCCACATA 840
Db |||||||
Db 297 PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrTyrrGlyGlnAlaSerAsnIle 316
QY 841 GTGGGAAAGGCTCATTCGACGATTAATGCTATGATGATGATGATGATGATGATG 900
Db |||||||
Db 317 ValGlyLysAlaHnIleSerAspTyrrMetLeuTyrrValTyrrAspProProThrHrIlePro 336
QY 901 CCTGCCAACAACATC 960
Db |||||||
Db 337 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIle 356
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Db |||||||

Db 357 ThrspserArgAlaGlyGluGluGlySerIleArgAlaValAspHis 372
RESULT 15
US-09-943-762-61
Sequence 61, Application US/09943762
Patent No. US20020142958A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Bolstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Geritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACTIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/943,762
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517

;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 61
;; LENGTH: 440
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-943-762-61
Alignment Scores:
Pred. No.: 6,11e-114 Length: 440
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conservative: 1
Best Local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
Gaps: 0
US-09-778-187b-3_copy_62_1069 (1-1008) x US-09-943-762-61 (1-440)
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Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
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Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 61 GTGGCAACCATCGTCGCCAGTCATATAGATGAGAGACTGATGTCCAGTCCCTGAA 120
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 57 ValAlaThrIleSerCysGlnValAsnLysSerAspAspSerValIleGlnLeuAsn 76
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QY 121 CCCAAGCAGACACATTAATCAAGGACTTCAGGCTTTGAAGAGACAGAGTTTCAG 180
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 77 proAsnArgGlnThrIleIleArgPheAspPheArgProLeuLysAspSerArgPheGln 96
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 181 CTGCTGAATTTTTCAGAGTGAATCAAGTGTCTCAGTGAAGTGTCAATTCGGAT 240
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 97 LeuLeuAsnPheserSerSerGlnLeuLysValSerLeuThrAsnValSerIleSerAsp 116
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QY 241 GAAGGAGATTAATTCGCCAGCTCTACAGGAGCCCCCAGAGAGATTAACACCATC 300
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 117 GluGlyArgTyrPheCysGlnLeuTyrThrAspProGlnGluSerTyrThrThrIle 136
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 301 ACAAGTCTGTTCTCCACAGTAATGATGATGATATCCAGAAAGACAGGAGTTGAA 360
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QY 137 ThrValLeuValProProArgAsnLeuMetIleAspIleGlnLysAspThrAlaValGlu 156
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 361 GGGGAGGAGATTGAAGTCAACTGTACTGCATGGCCAGCAAGCCAGCAGCATCAG 420

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 FT Modified-site 49..51
 FT /note= "N-glycosylation site"
 FT Modified-site 83..85
 FT /note= "N-glycosylation site"
 FT Modified-site 95..97
 FT /note= "N-glycosylation site"
 FT Modified-site 147..149
 FT /note= "N-glycosylation site"
 FT Modified-site 286..288
 FT /note= "N-glycosylation site"
 FT Modified-site 290..292
 FT /note= "N-glycosylation site"
 FT Domain 357..377
 FT /label= Transmembrane_domain
 FT Domain 378..423
 FT /label= Cytoplasmic_domain
 PN WO200008158-A2.
 PD 17-FEB-2000.
 XX
 XX 05-AUG-1999; 99WO-US17905.
 PR 07-AUG-1998; 98US-0095672.
 XX
 XX (IMV) IMMUNEX CORP.
 PI Baum PR, Fanslow WC;
 XX
 DR WPI: 2000-205712/18.
 DR N-PSDB: AAZ50883.
 XX
 PT Novel molecules designated LDCAM are capable of altering or modulating
 PT T cell function
 XX
 PS Claim 7; Page 46-47; 44pp; English.

CC The present amino acid sequence is the mouse lymphoid derived dendritic
 CC cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic
 CC cells and displays homology to adhesion molecules, B7-1 and cytoplasmic
 CC region of B7-1. Mouse LDCAM is found on whole embryo, testes, triple
 CC negative cells murine splenic and lymph node CD8+, S49.1 and dendritic
 CC cells. LDCAM polypeptides interacts with T cell surface molecules
 CC to alter signalling and inhibits T cell proliferation, bind to
 CC themselves and B7-1, an LDCAM binding protein and increases natural
 CC killer (NK) cell populations. It may be used to measure the biological
 CC activity and as quality control reagents of LDCAM binding proteins.
 CC LDCAM may be used for treating disorders associated with malfunctioning
 CC of immune system, inflammation, autoimmune disorders, viral infected
 CC cells, infectious diseases and for killing tumour cells. They are also
 CC useful for prevention or reducing the effect of organ and bone marrow
 CC transplant rejection and for modulating T cell immune responses. LDCAM
 CC polypeptides may also be used as carriers for delivering agents attached
 CC to T cells or cells bearing B7-1.

XX Sequence 423 AA:

Alignment Scores:
 Pred. No.: 2,03e-148 Length: 423
 Score: 1765.00 Matches: 336
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 97.84% Indels: 0
 DB: 21 Gaps: 0

US-09-778-187b-3_COPY_62_1069 (1-1008) x AAY45093 (1-423)

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OY 61 GTGGCAACCATCAGCTGCCAGCTGCATTAAGATGAGGACTCACTGATCCAGCTCTGAAAC 120
 DB 41 VALIALTHRIIESERCYSGLNVALASNLYSSERASPSPSERVALIEGLINLEUASN 60
 OY 121 CCCAACAGGAGAGCCATTACTTCAGGAGCTTCAGGCTTTGAAGACAGACAGCTTTCAG 180
 DB 61 PROASNARGLINHRIILLEYRPHENARGSPHENARGPROLEULYSASPSPSERARGPHEGLN 80
 OY 181 CTGCTGAATTTTCTGACATGACATCAAAAGCTGACCTGACGAATGTCATTCATCTCGAT 240
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 OY 241 GAAGGAGATACCTTCTGCCAGCTCTACAGGAGCCGCCACAGGAGATTACACCACATC 300
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 OY 361 GGGGAGAGATTGAGTCAACTGACTGACCATGGCCAGGAGCCAGGAGGAGCATTCAGG 420
 DB 141 GLYGLINLIEGLNVALASNLYSCTHRLALAMEALSERLYSPROALATHRIIEARG 160
 OY 421 TGCTTCAAAGGGAACAAGCAAGCAACTCAAGGCAATTCAGAGGTGAGAGTGTGCATG 480
 DB 161 TRYPHELYSGLYNLSNLYSGILEULYSGLYLSERGLVALGLINUTRPSERASPMET 180
 OY 481 TACACTGTGACCGATGATGATGCTGAAGGTGCACAAAGAGAGACAGGAGGTCCGGGTG 540
 DB 181 TYRTHRVALLTHRSERGLNLEUMETLEULYSVALHISLYSELNLSASPGLYVALPROVAL 200
 OY 541 ATCTGCCAGGTGAGGAGCACCCTGGCTCAGTCAAGAACCTGCAGACCCAGGCTATAGAA 600
 DB 201 IIECYSGINVALGLINHISPROALAVAILTHNGLYASNLEUGLINTHRGLNARGTYRLEUGL 220
 OY 601 GTGCACTATTAACCGCAAGTGCATATCCAGATGACTTACCTCTGCAAGGCTTACCCGG 660
 DB 221 VALGLINTLYSPROGLINVALHISLIEGLMETHTYRPROLEUGLNGLYLEUTHRARG 240
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 DB 241 GLUGLYASPLAHEGLIUEUTHRYCYSGLNALALIEGLYLSPROGLINPROVALMETVAL 260
 OY 721 ACTTGGGTGAGAGTTCATGATGATAAATGCTCAACATGCGTACTGTCTGGGCAAACTG 780
 DB 261 THTRPVALLARGVALASPSRGLMETCPRGLINHISLALVALLEUSERGLYPROASNLEU 280
 OY 781 TTCATCAATPACCTAAACAACAACAGATAACGGTACTTACCGCTGTGAGGCTTCAACATA 840
 DB 281 PHEILASNASNLEUASNLYSTHRASPASNGLYTHRYARGCYSGLNALASERASNILE 300
 OY 841 GTGGGAAGAAGCTCATTCGGAGACTATATGCTGATGTTAGATGCCCCCAACTATCCGT 900
 DB 301 VALGLYVALALHISSESRSPRYRMECTLEUITYRVALTYASPPROTHRIIELEU 320
 OY 901 CCTCCCAACAACAACACACACATACACACACACACACACACACACATCTTACCATCATC 960
 DB 321 PROPTHTHRTHTHRTHTHRTHTHRTHTHRTHTHRTHTHRTHTHRTHTHRTHTHRIIELE 340
 OY 961 ACAGATTCGACAGCAGTGAAGAGGAGGACCATTTGGGCGAGTGAGACAC 1008
 DB 341 THRASPSERARGALAGLYGLINUGLYTHRIIEGLYALVALASPSPTS 356
 RESULT 2
 AAM23691
 ID AAM23691 standard; Protein; 402 AA.
 AC AAM23691;
 AC AAM23691;
 DT 12-OCT-2001 (first entry)
 DE Human EST encoded protein SEQ ID NO: 1216.

XX Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
KW diagnostics; forensic test; gene mapping; genetic disorder;
KW biodiversity; gene therapy; nutrition.
XX Homo sapiens.
PN MO200154477-A2.
PD 02-AUG-2001.
XX 25-JAN-2001; 2001WO-US02687.
PF 25-JAN-2000; 2000US-0491404.
PR 17-JUL-2000; 2000US-0617746.
PR 03-AUG-2000; 2000US-0631451.
PR 15-SEP-2000; 2000US-0663870.
XX (HYSE-) HYSEQ INC.
PA Tang YF, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundt V;
PI Cao Y, Drmanac RA, Zhang J, Werhman T, Chen R, Asundt V;
XX WPI: 2001-476164/51.
DR N-PSDB: AAH98350.
XX Isolated polypeptide for treatment of diseases, diagnostics, raising
PT antibodies and research use -
PS Claim 20: Page 877-878; 1275pp: English.
XX The present invention provides the protein and coding sequences of novel
CC proteins from a variety of organisms, including human, dog, cat, horse,
CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
CC urchin and tomato. These were derived from expressed sequence tags (ESTs)
CC from the organism of interest. They can be used in diagnostics,
CC forensics, gene mapping, identification of mutations, to assess
CC biodiversity and for nutritional purposes. The present sequence is a
CC protein of the invention.
XX
XX Sequence 402 AA:
SQ
Alignment Scores:
Pred. No.: 2,72e-146 Length: 402
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conservative: 1
Best Local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: 22 Gaps: 0
US-09-778-187B-3_COPY_62_1069 (1-1008) x AAM23691 (1-402)
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DB 39 TLePOTThGlyAspGlyClnAsnLeuPheThrLysAspValThrValIleGluGlyCln 58
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DB 59 VALAATThrIleSerCysGlnValAsnLysSerAspSerValIleGlnLeuAsn 78
QY 121 CCCAAGCAGCAGACCATTTACTTCAAGGACCTTCAAGGACGAGGAGTTCAG 180
DB 79 ProAaNaRGlnThrIleThyRheArGAspPheArGProLeuLysAspSerArpGln 98
QY 181 CTGCTGAATTTTCTAGCAGTCAACTCAAGTGTCACTGACAGAAATCTTCGAT 240
DB 99 LeuLAsnPhSerSerSerGlnLeuLysValSerLeuThrAsnValSerIleSerAsp 118
QY 241 GAAGGAGATCTTGCACGCTTACACGAGACCCCGCAGAGAGATGACACCATC 300
DB 119 GluGlyArGlyThphecysGlnLeuTyThrAspProGlnGlnSerTyThrThrIle 138

QY 301 ACAGTCTGCTTCCTCCACGTAACCTTGATGATGATATCCAGAAAGACGAGTTCGA 360
DB 139 ThrValLeuValProProArGAsnLeuMetIleAspIleGlnLysAspThrAlaValGlu 158
QY 361 GGGGAGGACATGAAGTCACTGACTGCTACTGGCCAGCCAGACGACGACCATCAG 420
DB 159 GlyGluGlnIleGlnValAsnLysCysThrAlaMetAlaSerLysProAlaThrThrIleArg 178
QY 421 TGGTTCAAGGAGAACAGAGACTCAAGGCAAAATCAGAGTGGAGAGTGTGACAGAT 480
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DB 199 TyThrValThrSerClnLeuMetLysValIleLysGlnAspAspLysValProVal 218
QY 541 ATCTGCGAGTGGAGACCCCTCGGCTCACTGGAACCTTCAGAACCCAGGCTATCAGAA 600
DB 219 IleCysGlnValGlnIleHisProAlaValThrGlyAsnLeuGlnThrGlnArgTyLeuGln 238
QY 601 GTGAGTATTAACCCGCAAGTGCATATCCAGATGACTTACCCTCTGCAAGGCTAACCCG 660
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QY 661 GAAGGAGATGCAATTTGAGTTAACTGTGAGACCCATCCGAGACCCGAGCTGTATGTA 720
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DB 279 ThrTrpValArgValAspAspGlnMetProGlnIleAlaValLeuSerGlnLysProAlaLeu 298
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DB 1299 PheIleAsnAsnLeuAsnLysThrAspAsnGlyThyThrArgCysGlnAlaSerAlaIle 318
QY 841 GTGGCAAGCTCATTTGAGTATGATGATGATGATGATGATGATGATGATGATGATGAT 900
DB 319 ValGlyLysAlaIleHisSerAspTrpMetLeuTyValTyLysProProThrThrIlePro 338
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DB 339 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIle 358
QY 961 ACAGATTCTGAGCAGCAGTGAAGAGGAGGACCATTTGGGAGTGGAGCCAC 1008
DB 359 ThrAspSerArgAlaGlyGlnGlnGlySerIleArgAlaValAspHis 374
RESULT 3
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ID AAY17830 standard; Protein: 440 AA.
AC AAY17830;
XX
XX 12-AUG-1999 (first entry)
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DE Human PRO355 protein sequence.
XX
KW Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
KW secreted protein; transmembrane protein; inflammation disorder.
XX
OS Homo sapiens.
XX
PN MO9928462-A2.
PD 10-JUN-1999.
XX
XX 01-DEC-1998; 98WO-US25108.
PF
XX 25-FEB-1998; 98US-0075945.
PR 03-DEC-1997; 97US-0067411.
PR 11-DEC-1997; 97US-0069278.
PR 11-DEC-1997; 97US-0069334.

PR 11-DEC-1997; 97US-0069335.
 PR 12-DEC-1997; 97US-0069425.
 PR 16-DEC-1997; 97US-0069694.
 PR 16-DEC-1997; 97US-0069696.
 PR 16-DEC-1997; 97US-0069702.
 PR 17-DEC-1997; 97US-0069870.
 PR 17-DEC-1997; 97US-0069873.
 PR 18-DEC-1997; 97US-0068017.
 PR 05-JAN-1998; 98US-0070440.
 PR 09-FEB-1998; 98US-0074086.
 PR 09-FEB-1998; 98US-0074092.

XX (GETH) GENENTECH INC.

XX Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;
 PI Yuan J;

DR WPI: 1999-371118/31.
 DR N-PSDB; AAX80053.

XX Nucleic acids encoding PRO secreted and transmembrane proteins
 PT Claim 12; Fig 27; 123pp: English.

CC The present invention describes nucleic acids encoding PRO secreted and
 CC transmembrane proteins used therapeutically. The PRO proteins have
 CC cytosolic, anti-inflammatory, anti-proliferative and immunosuppressive
 CC activity. The proteins and polynucleotides can be used in therapy,
 CC identification of homologues, raising antibodies and design of probes
 CC and primers. They can be used in a range of diseases related to proteins
 CC that they have homology with, e.g. a PRO protein having homology to
 CC complement proteins may be used in inflammatory responses.

XX Sequence 440 AA:

Alignment Scores:

Pred. No.: 2,8e-146 Length: 440
 Score: 1741.00 Matches: 332
 Percent Similarity: 99.11% Conservative: 1
 Best Local Similarity: 98.81% Mismatches: 3
 Query Match: 96.51% Indels: 0
 DB: 20 Gaps: 0

US-09-778-187b-3_COPY_62_1069 (1-1008) x AAY17830 (1-440)

QY 1 ATCCCCACAGGTGATGACAGATCTGTTACTAAAGACGTGAGTATTGAGAGAA 60
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 37 ILEPRTHTGlyAspGlyGlnAsnLeuPheThrIlyAspValThrValIleGluGlyIle 56
 QY 61 GTGGCAACCATCAGCTGCCAGGTCAATTAAGAGTACGACTCAGTATCCAGCTCTGAAC 120
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 57 VALAIAthIleSerCysGlnValAsnIlySerAspSerValIleGlnLeuLeuAsn 76
 QY 121 CCCACAGGACGACCATTTACTTACTTCAAGGAGCTTCAAGGAGACGAGCTTCAAG 180
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 77 ProAsnAlaGlnThrIleIlyrPheArgAspPheArgProLeuIlySspSerArgPheGln 96
 QY 181 CTGCTGAATTTTCTAGACAGTACCAAGTGTCACTGACGAAATCTCAATCTCGCAT 240
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 97 LeuLeuAsnPheSerSerSerGlnLeuIlyValSerIleThrAsnValSerIleSerAsp 116
 QY 241 GAAGGAGATCTTCTGCCAGCTCTACACGAGACCCCCACAGAGAGAGTTCACACCACATC 300
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 117 GluGlyArgIlyrPheCysGlnLeuIlyrThrAspProGlnGlnIlySerIlyrThrIle 136
 QY 301 ACAGTCCGTTCCTCCACAGTACTGATGATGATGATGATGATGATGATGATGATGATGAT 360
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 137 ThrValIleValProProArgAsnLeuMetIleAspIleGlnIlySspThrIleValGlu 156
 QY 361 GGGGAGGAGATTGAAGTCAACTGTACTGCGATGCCAGCAGCAGCAGCAGCAGCAGCAGCAG 420
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 157 GlyGluGluIleGlnValAsnIlyThrAlaMetAlaSerIlyProAlaThrThrIleArg 176

QY 421 TGGTTCAAAGGAACAAGAACTCAAAAGCAAAATCAAGCTGGAGAGTGTGAGCATG 480
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 177 TrpPheIlySclYasnThrGlnLeuIlyGlyIlySerGlnValGlnIlyurTrpSerAspMet 196
 QY 481 TACACTGTGACAGTACGCTGATGCTGAGCTGACAGCAGCAGAGCAGCAGGGGTCCGGTG 540
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 197 TyrThrValThrSerGlnLeuMetLeuIlyValHisIlySclYasnSspGlyValProVal 216
 QY 541 ATCTGCCAGGTGAGACGCCCTGGCGTCACTGGAACCTGACAGCCACGAGCTTCATGAGA 600
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 217 IleCysGlnValIleGlnIlySspProAlaValThrGlyAsnLeuGlnThrGlnArgIlyLeuGln 236
 QY 601 GTGCAGTATTAACCCGCAAGTGCATATCCAGATGACTTACCTCTGCAAGGCTTACCCGG 660
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 237 ValGlnIlyrIlySproGlnValHisIleGlnMetThrTyrProLeuGlnIlyLeuThrArg 256
 QY 661 GAAGGGAGTCAATTGAGTTAACGTGTGAAGCCATGCGGAGAGCCCAAGCTGTGATGTA 720
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 257 GluGlyAspAlaLeuGlnLeuThrCysGlnAlaIleGlyIlySproGlnProValMetVal 276
 QY 721 ACTGGGTGAGAGTCGATGATGATAATGCCCTCAACATGCGTACTGTCGTGGGCCAAACCTG 780
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 277 ThrTrpAlaArgValAspAspGlnMetProGlnHisAlaValLeuSerGlyProAsnLeu 296
 QY 781 TTCATCAATAACCTTAACAACAAGATACGTAACGTAACCTTACCGCTGTGAGGCTTCCAACATA 840
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 297 PheIleAsnAsnLeuAsnIlyThrAspAsnGlyThrTyrArgGlySclYasnIlySerAsnIle 316
 QY 841 GTGGGAAAGGCTATTCGAGCTATATGCTGTATGATATGATATGATATGATATGATATGAT 900
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 317 ValGlyIlySclYasnIlySerIlyrMetLeuIlyrValIlyrAspProProThrThrIlePro 336
 QY 901 CCTCCCAACAACACACACACACATACACACACACACACACACACACACACACATTCCTTACATCATC 960
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 337 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIle 356
 QY 961 ACAGATTCTGACAGCAGGTGAAGAGGGAGCCATTGGGGCAGGTGAGCAGC 1008
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 DB 357 ThrAspSerArgAlaGlyGlnIlySerIleArgAlaValAspHis 372

RESULT 4
 AAB01321
 ID AAB01321 standard; Protein; 440 AA.
 AC AAB01321;
 XX
 DT 25-SEP-2000 (first entry)
 XX
 DE Human PRO355 polypeptide.
 XX
 KW PRO; membrane bound protein; secreted protein; PRO357; PRO327;
 KW PRO243; PRO715; PRO241; PRO293; PRO323; PRO344; PRO347;
 KW PRO355; PRO353; PRO361; PRO365; transmembrane polypeptide;
 KW antibody; screening; detection; inhibition; probe; primer; human.
 XX
 OS Homo sapiens.
 XX
 FH Key
 FT Peptide
 FT 1..36
 FT Location/Qualifiers
 FT 9..15
 FT /label= Signal peptide
 FT /note= "N-myristoylation site"
 FT 65..69
 FT /note= "N-glycosylation site"
 FT 99..103
 FT /note= "N-glycosylation site"
 FT 111..115
 FT /note= "N-glycosylation site"
 FT 163..167
 FT /note= "N-glycosylation site"
 FT 227..233
 FT /note= "N-glycosylation site"
 FT 233..240
 FT Modified-site

FT	Modified-site	/note= "Tyrosine kinase phosphorylation site"
FT	Modified-site	302..306
FT	Modified-site	/note= "N-glycosylation site"
FT	Modified-site	306..310
FT	Modified-site	/note= "N-glycosylation site"
FT	Modified-site	307..313
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	319..328
FT	Modified-site	/note= "Tyrosine kinase phosphorylation site"
FT	Modified-site	365..371
FT	Modified-site	/note= "N-myristoylation site"
FT	Domain	372..393
FT	Domain	/label= transmembrane domain
FT	Modified-site	376..382
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	402..408
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	411..417
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	427..433
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	428..432
FT	Modified-site	/note= "N-myristoylation site"
FT	Modified-site	430..434
FT	Modified-site	/note= "N-glycosylation site"
XX		
PN	WO200032776-A2.	
PD	08-JUN-2000.	
XX		
XX	01-DEC-1999;	99WO-US28301.
XX		
PR	01-DEC-1998;	98WO-US25108.
PR	16-DEC-1998;	98US-0112850.
PR	22-DEC-1998;	98US-0113296.
XX		
PA	(GETH) GENENTECH INC.	
XX		
PI	Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;	
PI	Gerlstein ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;	
PI	Hillman KJ, Kijavlin ID, Napier MA, Roy MA, Tumas D, Wood WJ;	
XX		
DR	WPI: 2000-412324/35.	
DR	N-PSDB: AAA49563.	
XX		
PT	New human nucleic acids encoding secreted and transmembrane	
PT	polypeptides, designated as PRO polypeptides, useful as pharmaceutical	
PT	and diagnostic agents	
XX		
PS	Claim 12; Fig 24; 187pp; English.	
XX		
CC	New human nucleic acids encoding secreted and transmembrane	
CC	polypeptides which are designated as PRO polypeptides are described	
CC	The membrane-bound proteins have various industrial applications,	
CC	including as pharmaceutical and diagnostic agents. The membrane-bound	
CC	proteins can also be employed for screening of potential peptide or	
CC	small molecule inhibitors of the relevant receptor/ligand interaction.	
CC	Anti-PRO antibodies are useful for the affinity purification of PRO	
CC	from recombinant cell culture or natural sources.	
XX		
XX	Sequence 440 AA;	
XX		
Alignment Scores:		
Pred. No.:	2, 8e-146	Length: 440
Score:	1741.00	Matches: 332
Percent Similarity:	99.11%	Conservative: 1
Best Local Similarity:	98.81%	Mismatches: 3
Query Match:	96.51%	Indels: 0
DB:	21	Gaps: 0
US-09-778-187B-3_COPY_62_1069 (1-1008) x AAB01321 (1-440)		
1 ATCCCGACAGGTGATGCAGAACTCTGTTTACTAAAGACGTGACAGTGAATTGAAGAGAA 60		

Db	37	IIlePrlhngElgYsPglYgInAsnLeuPheThrLySsPvAlItrValIIegInglYGlU	56
QY	61	GTGGCAACCAATCACCCTGGCAGGTCAATAAGAGTAGCAGCTAGTATCCAGCTCCAGAC	120
Db	57	ValAlaThrIIeserCysGInValAsnLySerAsPspSerValIIegInLeuLeAsn	76
QY	121	CCCAACAGCAGCACCATTTACTTCAGGACCTTCAGGCCCTTTGAAGACAGCAGGTTTCAG	180
Db	77	ProAsnArgGInThrIIeTyPheArgAsPheAsrProLeuLySAsPserArgPheGln	96
QY	181	CTGGTGATTTTTCAGAGTGACCTCAAACTGTCACTGACGATGTCTCAATCTCGAT	240
Db	97	LeuLeuAsnPheserSerSerGInLeuLySValSerLeuThrAsnValSerIIeserAsp	116
QY	241	GAAGGAGATACTTCTGGCAGCTCTACACGGAGCCCCACAGAGAGATTACACCACTATC	300
Db	117	GlUglYatgYrPhieCysGInLeuTyTrhAsPProGInglUserTyTrhThrIIe	136
QY	301	ACAAGCTCGTTCCTCCACGTAACCTTGATGTAGTATCCAGAAAGACAGCGCACTTGA	360
Db	137	ThrValLeuValProProArgAsnLeuMetIIesPrllegInLySAsPThrAlaValGlU	156
QY	361	GGGAGAGGATTTGAAGTCAACTGTATCTGCCATGGCCAGACGCCAGCGAGACCATCAGG	420
Db	157	GlYglngInuIIegInValAsnCysThrAlaMetAlaSerLySProAlaThrThrIIeArg	176
QY	421	TGGTTCAAGGCAACAGGAAGTAACAAAGCAAAATCAGAGGTGGAGAGATGGTGGAGATG	480
Db	177	TrPrlheLySglYAsnThrGInLeuLySclYLySerGInValAlGInglUTrPserAsPmet	196
QY	481	TACACTGTGACCACTCAGCTGATGCTCTGAAGGTGCACAAAGAGAGACAGCGGGTCCGGTG	540
Db	197	TyTrhThrValThrSerGInLeuMetLeuLySValInIIeLySgluAsPAsPglYValProVal	216
QY	541	ATCTGGCAAGGTGGAGACACCCCTGGCGGTCACTGGAAACCTGGCAGACCCGATATCTAGA	600
Db	217	IIecysGInValAlGInIIeSProAlaValAlrhrGInLeuGInTrhGlnAlrYrLeuGInU	236
QY	601	GTGGCGATTAACCGGCAGAGTGCATATCCAGATGATGATTCCTCTGGCAAGGCTTAACCGG	660
Db	237	ValGInTyLySProGInValInIIeIIegInMetThrTyTrhProLeuGInglYLeuThrArg	256
QY	661	GAAGGGGATGCAATTTGAGTTAACTGTGTGAACCCATCCGGAGAGCCCAACGCTGTAGGTA	720
Db	257	GlUglYAsPrlaLeuGInLeuThrCysGlnAlaIIegInLySProGInProValMetVal	276
QY	721	ACTTGGGTGAGAGTCCGATGATGAATGCCCTCAACATGCCGTACTGTCTGGGCCAAACCTG	780
Db	277	ThrTrhValAlrGValAsPAsPglImetProGInIIeSAlaValAlleuSerGInProAsnLeu	296
QY	781	TTTCATCATTAACSTAAACAAACAGATGAAGGTTCAATGACGCTTCAAGGCTTCAACATA	840
Db	297	PheIIeAsnAsnLeuAsnLySThrAsPAsnLyTrhTyTrhArgCysGlnAlaSerAsnIIe	316
QY	841	GTGGGAAGGCTCATCTCGAGTATATGCTGTATGTATACGATCCGCCCAACTATGCTCT	900
Db	317	ValGInLySAlaIIeSserAsPtyrMetLeuTyTrhAlYAsPProProThrThrIIePro	336
QY	901	CTCTCCATCTTACATCATC	960
Db	337	ProProThrTrhTrhThrThrThrThrThrThrThrThrThrThrThrIIeLeuThrIIeIIe	356
QY	961	ACAAGTTCTCGAGCAGGTGAAGAGGGGACCAATGGGCGAGTGGAGCCAC	1008
Db	357	ThrAsPserArgAlaGlyGInglYserIIeArgAlaValaIAsPAsnIIe	372
RESULT 5			
ID	AAU29040		
AC	AAU29040 standard; Protein: 440 AA.		
XX	AAU29040:		

DT 18-DEC-2001 (first entry)
XX
DE Human PRO polypeptide sequence #17.
XX
KW PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
XX
OS Homo sapiens.
XX
PN WO200168848-A2.
PD
XX 20-SEP-2001.
XX
PF 28-FEB-2001; 2001WO-US06520.
XX
PR 01-MAR-2000; 2000WO-US05601.
PR 02-MAR-2000; 2000WO-US05841.
PR 03-MAR-2000; 2000US-187202P.
PR 06-MAR-2000; 2000US-186968P.
PR 14-MAR-2000; 2000US-189320P.
PR 14-MAR-2000; 2000US-189328P.
PR 15-MAR-2000; 2000WO-US06884.
PR 21-MAR-2000; 2000US-190828P.
PR 21-MAR-2000; 2000US-191007P.
PR 21-MAR-2000; 2000US-191048P.
PR 21-MAR-2000; 2000US-191314P.
PR 28-MAR-2000; 2000US-192655P.
PR 29-MAR-2000; 2000US-193032P.
PR 29-MAR-2000; 2000US-193053P.
PR 30-MAR-2000; 2000WO-US08439.
PR 04-APR-2000; 2000US-194449P.
PR 04-APR-2000; 2000US-194647P.
PR 11-APR-2000; 2000US-195975P.
PR 11-APR-2000; 2000US-196000P.
PR 11-APR-2000; 2000US-196187P.
PR 11-APR-2000; 2000US-196690P.
PR 11-APR-2000; 2000US-196820P.
PR 18-APR-2000; 2000US-198121P.
PR 18-APR-2000; 2000US-198585P.
PR 25-APR-2000; 2000US-199397P.
PR 25-APR-2000; 2000US-199550P.
PR 25-APR-2000; 2000US-199654P.
PR 03-MAY-2000; 2000US-201516P.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 05-JUN-2000; 2000US-209832P.
PR 28-JUL-2000; 2000WO-US20710.
PR 22-AUG-2000; 2000US-0644848.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
DR N-PSDB; AAS45941.
XX
XX WPI; 2001-602746/68.
XX
XX N-PSDB; AAS45941.
PT Novel nucleic acids encoding PRO polypeptides, used to diagnose the
PT presence of tumours, such as prostate and breast tumours, in mammals and
PT to screen for modulators of the compounds -
XX
XX Claim 11; Fig 34; 774pp; English.
XX
XX Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.
CC The PRO polypeptides and their associated nucleic acids can be used to

CC detect the presence of a tumour in a mammal by comparing the level of
CC expression of a PRO polypeptide in a test sample of cells from the animal
CC and a control sample of normal cells, whereby a higher level of
CC expression in the test sample indicates the presence of a tumour in the
CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
CC and rabbits but are preferably human. The polypeptides can be used to
CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
CC when contacted with it. A specific polypeptide can be used to stimulate
CC the proliferation or differentiation of chondrocyte cells. The PRO
CC proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders.
XX
SQ Sequence 440 AA:

Alignment Scores:
Pred. No.: 2.8e-146 Length: 440
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conservative: 1
Best local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: 22 Gaps: 0

US-09-778-187B-3_COPY_62_1069 (1-1008) x AAU29040 (1-440)
QY 1 ATCCCCACAGGTGATGACAGCAATCGTTACTTAAGACGTGACAGATTGAAGGAGAA 60
Db |||
QY 37 ||leProthrlglsplgylglnaslnleupherthrllyspalThrval||leglnlgylgn 56
Db |||
QY 61 GTGGCAACCATCAGCTGCCAGTCAATAAGAGTGACAGCTAGTATCCAGCTCTGTAAC 120
Db |||
QY 57 ValAlathrllesercysglnvalaslnlysserAspspervall||eglnleuleasn 76
QY 121 CCCAACAGCAGACCATTTACTTCAGGAGCTTCAAGCCTTTGAAGACAGAGTTTCAAG 180
Db |||
QY 77 ProAsnArglnlnhrlleryrPheargspPheargProleuylspsSerArgPhegln 96
QY 181 CTGCTGAATTTTCTGACATGAACTCAAGCTGCTGCAATGCTCAATCTCAATCTGGAT 240
Db |||
QY 97 LeuleuasnPheSerSerSerGlnleulysValSerleuthrsnvalSer||leSeasp 116
QY 241 GAAGGAGATACTTCTGCCAGCTCTACACGACGCCCCACAGAGAGATTACACCACCATC 300
Db |||
QY 117 GluGlyArggryrPheCysglnleutyrrThrAspProProInclnlserrYrrhrtr||le 136
QY 301 ACAGTCTGCTCTCTCCACGTAACCTTGATGATGATATCCAGAAAGACAGCGATTGAA 360
Db |||
QY 137 ThrValleuValProProArgAsnleuMet||leAsp||eglnlyAspPfrAlaValgln 156
QY 361 GGGGAGAGATTGAAGTCAACTGACTGATGCCATGCCAGCAGCAGCAGCAGCATTCAGG 420
Db |||
QY 157 GlyGlnGln||leGlnvalasncysTrnAlaMetAlSerlysrProAlaTrnTr||leArg 176
QY 421 TGCTTCAAGGAGGAACAAGCAAGCAACTCAAGCAAGTGAAGAGAGAGAGTGGTCGACATG 480
Db |||
QY 177 TrpPheylsglysnhrnglnuleuylsglylserrGlnValGlnlurtrpsersAspmet 196
QY 481 TACACTGTGACAGTACGTGATGCTGAAGGTGCACACAGAGAGAGAGAGGCGTCCGGGTG 540
Db |||
QY 197 TyrThrValThrSerSlnleuMetleulysValHlslysglnluspasp||leValProval 216
QY 541 ATCTGCCAGGTGAGACACCCCTGGGTCACCTGCAACACCTGCAGACCCAGCGCTATCAGAA 600
Db |||
QY 217 ||leCysGlnValGln||hsrProAlaValTrnGlyAsnleuclnhrTrnlnrgyrrleuGln 236
QY 601 GTGCAGTATAACCGCAAGTGCATATCCAGATCATTACCTGTGCAAGGCCATACCCGG 660
Db |||
QY 237 ValGlnTrlysrProslnvalHls||leGlnMetThrTyrProleuGlnlnleuTrnArg 256
QY 661 GAAGGGGATGATTTGAGTTAAGCTGGAAGCCATCGGAGGCCAGCGCTGTGATGATGTA 720
Db |||

DB 257 GIUGLYASPALALEUCLULEUTHRCYSGIUALAILEGLYLYSPROGLINPROVALIMETVAL 276
OY 721 ACTTGCGTGAGAGTCGATGATGAATGCTTCAACATCCGCTACTGTGGCCAAACCTG 780
DB 277 THRTRPRVALARGVALASPRASPIUMETPROGLINHLSALAVALLAUSERSERGLYPROASLEU 296
OY 781 TTCATCAATTAACCTTAACAAACAGATTAACGGTACTTACCGCTGTGAGGCTTCCAAACATA 840
DB 297 PHEILEASNAHLAUSANLYSSTRASPAANGLYTHYTRARGCYSGIUALASERASNIIE 316
OY 841 GTGGAAAGCTCATTCGAGCTATATGCTGTATGATACGATCCCCCACTATACCT 900
DB 317 VALGILYLSALHLSERASPIRYMETLEUTRYVALTYRASPROTHRTHRIIEPTO 336
OY 901 CCTCCACAACACCAACCACTACACACACACACACACACACATCCTTACCATCATC 960
DB 337 PROTHRTHRTHRTHRTHRTHRTHRTHRTHRTHRTHRTHRIIEUTHRIIEILE 356
OY 961 ACAGATTCGACGACGATGAAGGGGACCATTTGGGCGAGTGACCAC 1008
DB 357 THRASPSERARFAGLGLYGLUGLISERILEARGALAVALAIPHLS 372
RESULT 6
AAB25619
ID AAB25619 standard: Protein; 442 AA.
AC AAB25619:
DT 21-NOV-2000 (first entry)
XX
DE Protein encoded by human secreted protein gene #11.
XX
KM Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic;
KM antirheumatic; dermatological; antiproliferative; antiarteriosclerotic;
KM anticancer; vulnerary; antiviral; antibacterial; antifungal;
KM immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;
KM multiple sclerosis; inflammatory disorder; inflammatory bowel disease;
KM Crohn's disease; nephritis; hyperproliferative disorder;
KM cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;
KM melanoma; lymphoma; wound healing; human.
XX
OS Homo sapiens.
XX
PN WO200029435-A1.
PD 25-MAY-2000.
XX
PF 27-OCT-1999; 99WO-US25031.
XX
PR 28-OCT-1998; 98US-0105971.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
PI NI J, Ruben SM, Olsen HS, Young PE, Kenny JJ, Moore PA, Mel Y;
PI Greene JM;
PI WPI: 2000-387742/33.
DR
PT Isolated nucleic acid molecules encoding human secreted proteins are
PT used for the prevention, amelioration and treatment of autoimmune,
PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,
PT wounds, and infectious diseases -
XX
XX Disclosure; Page 182-183; 803pp; English.
XX
XX The present invention relates to 12 secreted human proteins and the
XX nucleotide sequences encoding them. The polynucleotide sequences given
XX in AAB0666-A80623 encode the 12 secreted protein sequences given in
XX AAB5576-B25593. The human secreted proteins have various activities
XX dependent on the tissues in which they are expressed. Examples of the
XX activities of the proteins include: immunosuppressant;
XX anti-inflammatory; antirheumatic; antineurotic; dermatological;
XX antiproliferative; antiarteriosclerotic; anticancer; vulnerary;

CC antiviral; antibacterial; and antifungal activity. The proteins,
CC polypeptides, agonists and antagonists may be used to treat prevent
CC and/or diagnose various disease, disorders and conditions examples of
CC which include: immune disorders e.g. Addison's disease, rheumatoid
CC arthritis, dermatitis, and multiple sclerosis; inflammatory disorders
CC e.g. inflammatory bowel disease, Crohn's disease and nephritis;
CC hyperproliferative disorders such as paraproteinleukias and purpura;
CC cardiovascular disorders e.g. coronary arteriosclerosis and myocarditis;
CC cancer e.g. melanoma and lymphoma. The proteins and polynucleotide
CC sequences may also be used in wound healing and the treatment of
CC infectious diseases. The human secreted protein gene #11 and protein
CC sequences are represented in sequences AAB0666 and AAB25586. Sequences
CC AAB0677-A80682 represent genes related to the secreted protein gene#11.
XX
SQ Sequence 442 AA:
XX
Alignment Scores:
Pred. No.: 2 8e-146 Length: 442
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conservative: 1
Best Local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: Gaps: 0
US-09-778-187b-3_COPY_62_1069 (1-1008) x AAB25619 (1-442)
OY 1 ATCCCCAGAGTGATGAGACAGATCTGTTTACTTAAGACGTGACATGATTGAGAGAA 60
DB 39 IIEPOTHRGILYASPLLYGILNASLEUPHETHRLYASPVALHTRVALIIEGLUGLIGLU 58
OY 61 GTGGACACCATCAGCTGCCAGGTCAATTAAGAGTGCAGCTCACTGATCCAGCTCTGAAAC 120
DB 59 VALAIAHTRILLESERCYSGILNVALASNLYSERASPSERVALIIEGLINLEULASNA 78
OY 121 CCCAACGACGACGACATTTACTTCAGAGACTTCAGGCTTTGAAAGACAGACAGTTTCAG 180
DB 79 PROASNAHGINHTRHRIIEYRPHETARGSPHEAIRPROEULYSASPERARGPHEGIN 98
OY 181 CTGCTGAATTTTTCAGACAGTGAACCTCAAGTCTCACTAGCAATGTCATATCTCGAT 240
DB 99 LEULASNAHPSERASERSEIRGILNULYSVALISERLEUTHRASVALISERILEASRA 118
OY 241 GAAGGAGATACTTCTGCCAGCTCTACAGGACCCCCACAGAGATTACACACCATC 300
DB 119 GIUGLYARGTYRPHCYSGILNULYRTRHASPPROGLINLUSERTYRTHRIIE 138
OY 301 ACAGCTCGTTCCTCCACAGTAACTGATGATGATGATGATGATGATGATGATGATGAT 360
DB 139 THRVALLEUVALIPROFORARGASNLUMETLIEASPIIEGLINLYSASPHRVALAVAL 158
OY 361 GGGAGAGAGATTGAAGTCAACTGTACTGCCATGCGCAGCAGACGACGACGACCATCAG 420
DB 159 GLYGLUGLUIIEGLIUNVALASNCYSTRHIALAMELVALISERTYRVALHTRHRIIE 178
OY 421 TGGTTCAAGGAGAACAGAACTCAAGGCAATTCAGAGGTGAGGAGTGGTGGACATG 480
DB 179 TRPHELYSGIYASNTHRLIULYLSGLYLSERGLIUNVALIIEGLIUNTRPSEASPMET 198
OY 481 TACACTGTACACAGTACAGTGTGCTGAAGGTGCACAAAGAGAGACAGGAGGCTCCGGTG 540
DB 199 TYRTHRVALHTRSERINLEUMETLEULYSVALHLSLYGLINSPASPIYVALIPROVAL 218
OY 541 ATCTGCCAGTGGAGACCCCTCGGTCACTGTGAAACCTGCAGACCCAGCGCTATTGAA 600
DB 219 IIECYSGILNVALIIEGLIHLSIPROVALAVALHTRGILYASNLUEGLINHTRILNRYTRLEUGLU 238
OY 601 GTGCACTATAAACCGCAAGTCATATCCAGATGACTTACCTCTGCAAGCCTTAACCCGG 660
DB 239 VALGINTYRLYSPROGLINVALHLSIIEGLIMETLHYTRPROLEUINGLYLEUTHRARG 258
OY 661 GAAGGAGATGATTTGATTAACGTGTGAAGCATGGAAGCCAGCCAGCTGTGATGATGTA 720
DB 259 GIUGLYASPALALEUCLULEUTHRCYSGIUALAILEGLYLYSPROGLINPROVALIMETVAL 278

D	b		I l e r t h r i n g l y s p r g l y g I n A S n L e u P h e T h r L y s A s p H a I t h r V a l I l e G l u G l y G l u	58
O	y	61	G T G C A A C A C A T C A C G C T C C A G C G T C A A T A A G A G T G A C A C T C A G T A T C A G C T C T G A A C	120
D	b	59	V a l A l a T h r I l e S e r C y s G l N v a l A S n L y S e r A s p R s e r V a l I l e G l N L e u L a S n	78
O	y	121	C C C A A A G G C G A C A C A T T T A C T C A G G A C M T C A G G C C T T T G A A A G C A C A C A G T T T C A G	180
D	b	79	P r o m S n A a g G l n T h r I l e Y r F h e A r A s p P h e A r g P r o L e u L y s A s p E r A r g P h e G l n	98
O	y	181	T G C T G A A T T T T T T T A C A C A G T A A A G T G C A C T G C A A T G T C T A A T C T G G A T	240
D	b	99	L e u L a S n A S n P h e S e r S e r S e r G l L e u L y L a S n V a l S e r L e u T h r A S n V a l S e r I l e S e r A s p	118
O	y	241	G A A G G A K A T A C T T C T G C A G C T T A C A G G A C C C C C A C A G A G A T T A C A C C A C C A T C	300
D	b	119	G l u L y A r g Y r P h e C y s G l N L e u Y r F t h A s p P r o P r o G l n G l u S e r Y r T h r T h r I l e	138
O	y	301	A C A G C C T G G T T C C T C C A C G T A A C T T A T A T G A T A T G A T T C C A A A A G A C A G G A G T T G A A	360
D	b	139	T h r V a l L e u V a l P r o P r o L a r g A S n L e u M e l l e A s p I l e G l n L y S a s p T h r A l a V a l G l u	158
O	y	361	G G G A G A G A T T G A A G T C A A C T G T A C T G C A T G G C A G A G C A A G C A G A C A C A T C A G G	420
D	b	159	G l y G l u G l u I l e G l u V a l A S n C y s T h r A l a M e t A l a S e r L y s P r o A l a T h r T h r I l e A r g	178
O	y	421	T G G T T C A A A G G A A C A A G A A C T A A A G C A A A T A A G A G T G A A G A G T G T G T G G A C A T G	480
D	b	179	T t r P h e L y S G l y A a n T h r G l u L e U l e L y S G l Y l y S s e r f i v a l A G l u G l u T r P s e A s p M e t	198
O	y	481	T A C A C T G T G A C C A C T A G C T G A T C C T A A A G T G C A A G A G A G A C A G C G G G T C C G G T G	540
D	b	199	T y r T h r V a l T h r S e r G l N L e u M e l L e u L y V a l A i s r y S g l u a S p a s p A r g L y V a l P r o V a l	218
O	y	541	A T C T G C C A G T G A G A C A C C C T G C G C T A C T G E A A A C C T G C A A C C C A G C C T A T A G A A	600
D	b	219	I l e c y S g l N v a l G l u I n A S P r o A l a V a l T h r G l y A S n L e u G l n T h r G l n A A r g Y r L e u G l u	238
O	y	601	G T G C A T A T A A A C G S A A G T C A T A T C A G A T G A C T T A A C C C T G C A A G C C T A A C C C G G	660
D	b	239	V a l G l n T r L y S P r o G l n V a l A i S l l e G l M e t L y r T r O l e u G l n G l y L e u T h r A r g	258
O	y	661	G A A G G G A T G C A T T T G A G T T A A C S T G T G A A G C C A T C G G A A G C C C A C C C T G A T G A T G T A	720
D	b	259	G l u G l y A s p A l a L e u G l u L e u T h r C y s G l V a l A l l e G l Y l y S P r o G l n P r o V a l M e t V a l	278
O	y	721	A C T T G G G A G A G C A G T G A T G A A A T C C C T C A C A T C C C C T A C T G T T G G G C C A A A C C T G	780
D	b	279	T h r T r P r V a l A r g V a l A s p A s p G l M e t P r o G l n I n A l a V a l L e u S e r G l y P r o A S n L e u	298
O	y	781	T T C A T A C A T A T C S T A A A C A A A A C A G A T A A C G S G T A C T T A C C G C T G T A G C C T T C C A A T A	840
D	b	299	P h e l l e A S n A S n L e u A S n L y t h r A s p A S n G l y t h r A r g A r g C y s G l A l a S e r A S n L l e	318
O	y	841	S T G G A A A A G C C T A T T G G A G A T A T A T G C T G T A T G T A T A S G A T C C C C C A C A A C T A T C C T	900
D	b	319	V a l G l y V a l A i N i S e r A s p T y M e t L e u Y r V a l Y r A s p P r o P r o T h r T h r I l e P r o	338
O	y	901	C C T G C A A A A A C C A T C	960
D	b	339	P r o P r o T h r T h r T h r T h r T h r T h r T h r T h r T h r T h r T h r T h r T h r T h r T h r T h r T h r	358
O	y	961	A C A G A T T T C G A G A C G T G A A G A G G G A C A T T G G G G C A C T G A C A C A C	1008
D	b	359	T h r A s p S e r A r g A l n G l y G l u G l u G l y S e r I l e a r g A l a V a l A s p A i S	374
RESULT 8 AAV4S092 standard; Protein: 442 AA.				
ID	NC	XX	AAV4S092;	

DTF	31-MAY-2000	(first entry)
XX		
DE	Human lymphoid derived dendritic cell adhesion molecule.	
XX		
KW	Lymphoid derived dendritic cell adhesion molecule; LDCAM; human; B7-1;	
KW	B7-1; T cell proliferation; natural killer cell; NK; tumour cell;	
KW	biological activity; quality control reagent; treatment; inflammation;	
KW	immune system disorder; autoimmune; viral infection; infectious disease;	
KW	organ transplant rejection; bone marrow; modulator; immune response.	
XX		
OS	Homo sapiens.	
XX		
PH	Key	Location/Qualifiers
FT	Domain	1..374
FT	Peptide	/label= Extracellular_domain
FT		1..38
FT	Protein	/label= Leader_peptide
FT		39..442
FT		/label= Mature_human_LDCAM_polypeptide
FT	Modified-site	67..69
FT		/note= "N-Glycosylation site"
FT	Modified-site	101..103
FT		/note= "N-Glycosylation site"
FT	Modified-site	113..115
FT		/note= "N-Glycosylation site"
FT	Modified-site	165..167
FT		/note= "N-Glycosylation site"
FT	Modified-site	304..306
FT		/note= "N-Glycosylation site"
FT	Modified-site	308..310
FT		/note= "N-Glycosylation site"
FT	Domain	375..395
FT		/label= Transmembrane_domain
FT	Domain	396..442
FT		/label= Cytoplasmic_domain
XX		
PN	WO200008158-A2.	
XX		
PD	17-FEB-2000.	
XX		
PE	05-AUG-1999; 99WO-US17905.	
XX		
PR	07-AUG-1998; 98US-0095672.	
XX		
PA	(IMVY) IMMUNEX CORP.	
XX		
PI	Baum PR. Fanslow WC;	
XX		
DR	WPI: 2000-205712/18.	
DR	N-PSDB: AA250882.	
XX		
PT	Novel molecules designated LDCAM are capable of altering or modulating	
PT	T cell function	
XX		
PS	Claim 7; Page 42-43; 44pp; English.	
XX		
CC	The present amino acid sequence is the human lymphoid derived dendritic	
CC	cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic	
CC	cells and displays homology to adhesion molecules, B7-1 and cytoplasmic	
CC	region of B7-1. Human LDCAM is expressed in breast, retina, foetal	
CC	liver, spleen and heart, lung, muscle, placenta, thyroid and lung	
CC	carcinoma. LDCAM polypeptides interacts with T cell surface molecules	
CC	to alter signalling and inhibits T cell proliferation, bind to	
CC	themselves and B7-1, an LDCAM binding protein and increases natural	
CC	killer (NK) cell populations. It may be used to measure the biological	
CC	activity and as quality control reagents of LDCAM binding proteins.	
CC	LDCAM may be used for treating disorders associated with malfunctioning	
CC	of immune system, inflammation, autoimmune disorders, viral infected	
CC	cells, infectious diseases and for killing tumour cells. They are also	
CC	useful for prevention or reducing the effect of organ and bone marrow	
CC	transplant rejection and for modulating T cell immune responses. LDCAM	
CC	polypeptides may also be used as carriers for delivering agents attached	
CC	to T cells or cells bearing B7-1.	

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XX Sequence 442 AA:
Alignment Scores:
Pred. No.: 2,8e-146 Length: 442
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conservative: 1
Best Local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: 21 Gaps: 0

US-09-778-187B-3_COPY_62_1069 (1-1008) x AAY45092 (1-442)

QY 1 ATCCCCACAGGTGAGACAAATCTGTTACTAAAGACGTGACAGTATTGAAGAGAA 60
   |||
Db 39 ILEProthrglyaspglylnasnleuPheThrLysaspValThrValIleGluGly 58
QY 61 GTGGCAACCTCAGCTGCCAGGTCAATAGAGTACAGCTCAGTGCAGCTCTGTAAC 120
   |||
Db 59 ValAlaThrIleSerCysGlnValAsnLysSerAspSerValIleGlnLeuAsn 78
QY 121 CCCAACGAGACCAATTTACTTACAGGACTTCAGGCTTGAAGCAGACAGTTTACAG 180
   |||
Db 79 ProAsnArgGlnThrIleTyrPheArgAspPheArgProLeuLysAspSerArgPheGln 98
QY 181 CTGCTGAATTTTCTAGACAGTCAACTCAAGTGTCACTGACAGATGTCTCAATCTCGAT 240
   |||
Db 99 LeuLeuAsnPheserSerSerSerGluLeuLysValSerLeuThrAsnValSerIleSerAsp 118
QY 241 GAAGGAGAGATCTTTCGCCAGCTCTACACGACCCGCCACAGAGAGTTACACCACCATC 300
   |||
Db 119 GluGlyArgTyrPheCysGlnLeuTyrThrAspProGlnLysSerTyrThrThrIle 138
QY 301 ACAGTCTGCTGCTCCACAGTAACTGATGATGATTCAGAAAGACAGGAGAGTTGAA 360
   |||
Db 139 ThrValLeuValIleProProArgAsnLeuMetIleAspIleGlnLysAspThrAlaValGlu 158
QY 361 GGGGAGAGATTGAAGTCAACTGTACTGCCATGCCAGCAGCAGCAGCAGCAGCATCAG 420
   |||
Db 159 GlyGluGluIleGlnValAlaAsnCysThrAlaMetAlaSerLysProAlaThrThrIleArg 178
QY 421 TGGTTCAAAGGGAACAAGACACTCAAGCAAGCAATCAGAGTGCAGAGTGTGGCATG 480
   |||
Db 179 TrpPheLysGlnLysThrGluLeuLysGlyLysSerGlnValGluGlnLysSerAspMet 198
QY 481 TACACTGTGACAGTACGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
   |||
Db 199 TyrThrValThrSerGlnLeuMetLeuLysValHisLysGlnAspGlyValProVal 218
QY 541 ATCTGCCAGGTGAGACACCTGGGTCACTGGAACCTGCAGACCCAGCGCTATCAGAA 600
   |||
Db 219 IleCysGlnValGlnHisProAlaValThrGlyAsnLeuGlnThrGlnArgTyrLeuGlu 238
QY 601 GTCCCATTTAAACCCGAGGCGATATCCAGATGATCTTACCCTTCGAAAGCCCTAACCCG 660
   |||
Db 239 ValGlnTyrLysProGlnValHisIleGlnMetThrTyrProLeuGlnGlyLeuThrArg 258
QY 661 GAAGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
   |||
Db 259 GluGlyAspAlaLeuGlnLeuThrCysGlnAlaIleGlyLysProGlnProValMetVal 278
QY 721 ACTTGGGTGAGAGTGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
   |||
Db 279 ThrTrpValArgValAspArgGlnMetProGlnHisAlaValLeuSerGlyProAsnLeu 298
QY 781 TTCATCAATTAACCTAAACAACAACAGATAACGATTAACCGCTGTAGAGGCTTCCAAACATA 840
   |||
Db 299 PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrTyrArgGlyGlnAlaSerAsnIle 318
QY 841 GTGGGAAAGGCTCATTCGAGATATATGCTGATGATGATGATGATGATGATGATGATGAT 900
   |||
Db 319 ValGlyLysAlaHisSerAspTyrMetLeuTyrValTyrAspProProThrThrIlePro 338

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QY 901 CTTCCACAAACACACACACACACACACACACACACACACACACACACACACACACAC 960
   |||
Db 339 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr 358
QY 961 ACAGATTCTCGACAGAGTGAAGAGGAGGACCATTTGGGACATGAGACAC 1008
   |||
Db 359 ThrAspSerArgAlaGlyGluGlySerIleArgAlaValAspHis 374

RESULT 9
AAEI9887
ID AAEI9887 standard; Protein; 442 AA.
XX
AC AAEI9887;
XX
DT 18-JUN-2002 (first entry)
XX
DE Human tumour suppressor lung cancer 1 (TSLC1) polypeptide.
XX
KW Human; hepatocellular carcinoma; tumour suppressor lung cancer 1; TSLC1;
KW liver; lung; pancreatic cancer; cell proliferative disorder; cytostatic;
KW gene therapy.
XX
OS Homo sapiens.
XX
PN WO200214557-A1.
XX
PD 21-FEB-2002.
XX
PF 15-AUG-2001; 2001WO-US25690.
XX
PR 15-AUG-2000; 2000US-225264P.
XX
PA (UYUO) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
XX
PI Reeves RH, yoshimori M;
XX
DR WPI; 2002-241913/29.
XX
PT Detecting cell proliferative disorder associated with tumor suppressor
PT lung cancer (TSLC1) 1 in subject, comprises contacting proliferating
PT cell of subject with reagent detecting TSLC1 and detecting modification
PT in TSLC1 level -
XX
PS Disclosure; Page 49-50; 59pp; English.
XX
CC The invention relates to a method for detecting cell proliferative
CC disorder associated with tumour suppressor lung cancer 1 (TSLC1) in a
CC subject. The method comprising contacting a cell component of a
CC proliferating cell with a reagent that detects level of the cell
CC component in the proliferating cell and determining modification in the
CC level of the cell component in proliferating cell as compared with a
CC healthy cell, where modification indicates disorder associated with
CC TSLC1. The method is useful for detecting a cell proliferative disorder
CC (e.g. liver, lung or pancreatic cancer) associated with tumour suppressor
CC lung cancer 1 (TSLC1) in a subject. The invention is useful in gene
CC therapy and for treating a cell proliferative disorder such as lung
CC cancer (human non-small cell lung cancer), liver cancer (hepatocellular
CC carcinoma) or pancreatic cancer associated with modification of TSLC1
CC production, where a reagent which modulates (preferably, increases) TSLC1
CC level in the cells, is employed. The present sequence is human TSLC1.
XX
SQ Sequence 442 AA:
Alignment Scores:
Pred. No.: 2,8e-146 Length: 442
Score: 1741.00 Matches: 332
Percent Similarity: 99.11% Conservative: 1
Best Local Similarity: 98.81% Mismatches: 3
Query Match: 96.51% Indels: 0
DB: 23 Gaps: 0

US-09-778-187B-3_COPY_62_1069 (1-1008) x AAEI9887 (1-442)

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OY 1 ATCCCAAGAGTGTGAGAGATCTGTTTAAAGACCTGACAGTGAATGAGAGAA 60
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DB 11EProthG1yAsp61yGlnAsnLeuPheThrLysAspVal1ThrVal11eGluG1yGln 58
OY 61 GTGGCAACATGAGTGGCAGGTCATAGAGAGACAGTGAATGAGTCCAGGCTCCGAAC 120
   |||
DB 59 Val1AlaThr11eSerCysGlnValAsnLysSerAspAspSerVal11eGlnLeuLeuAsn 78
OY 121 CCCAACAGGACAGACATTTACTTCAGGAGCTTCCAGGCTTTGAGAGACAGAGCTTTCAG 180
   |||
DB 79 ProAsnArgGln1Thr11eThr11eThr11eThr11eThr11eThr11eThr11eThr11e 98
OY 181 CTGCTGAATTTTCTTACAGAGTGAACCTCAAGTGTCTACAGCAATCTCTCAATCTGGAT 240
   |||
DB 99 LeuLeuAsnPheserSerSerSerGluLeuLysVal1SerLeuThrAsnVal1Ser11eSerAsp 118
OY 241 GAAGGAGATTAAGTGTGAGAGCTTACAGGAGACCCCGCCAGAGAGTTCACAGCAGCATC 300
   |||
DB 119 GluGluArgTyrPheCysGlnLeuTyrThrAspProProGlnLysSerTyrThrThr11e 138
OY 301 ACAGTCCCTGGTTCCCTCCAGCTAAGTGAATGATGATGATATTCAGAAAGACAGCAGTTCGA 360
   |||
DB 139 ThrVal1LeuVal1ProProArgAsnLeuMet11eAsp11eGlnLysAspThrAlaVal1Glu 158
OY 361 GGGGAGACATTTGAAGTCAACTGTACTGCCATGCGCCAGACAGCAGCAGCAGCATCAGG 420
   |||
DB 159 GlyGluGlu11eGluVal1AsnCysThrAlaMetAlaSerLysProAlaThrThr11eArg 178
OY 421 TGGTTCAAGGAGAACAGACCTCAAGGCAATGACAGAGTGGAGAGTGGTGGAGCATG 480
   |||
DB 179 ThrPheLysGluAsnThrGluLeuLysGluLysSerGluVal1Glu11eLysSerAspMet 198
OY 481 TACACTGTGACAGAGTGAAGTGTGAAGGTGTCACACAGAGAGAGACAGGAGTCCCGGTG 540
   |||
DB 199 TyrThrVal1ThrSerGlnLeuMetLeuLysVal1AsnLysGluAspArgVal1ProVal 218
OY 541 ATCTGCCAGTGGAGACACCTGGGCTGACCTGGAAACCTGCAAGCCAGCAGCTATCTAGAA 600
   |||
DB 219 T1eCysGlnVal1Gln11eAspAlaVal1ThrGluAsnLeuGln11eThrGlu11eGlu 238
OY 601 GTGCACTATTAACCCGACAGTGCATATCCAGATGACCTTACCCCTGGAAGCCCTAACCCGG 660
   |||
DB 239 ValGlnTyrLysProGlnVal1Asn11eGlnMetThrTyrProLeuGlnGluLeuThrArg 258
OY 661 GAAGGGAGTGCATTTGAGTGAAGTGTGAAGCCATGCGGAAAGCCAGCAGCTGTGATGTA 720
   |||
DB 259 GluGluAspAlaLeuGluLeuThrCysGluAla11eGluLysProGlnProVal1MetVal 278
OY 721 ACTTGGGTGAGAGTGCATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
   |||
DB 279 ThrThrVal1ArgVal1AspAspArgLysMetProGln11eAsn11eVal11eLeuSerGlyProAsnLeu 298
OY 781 TTCATCAATTAACCTTAACAAACAGATTAACGATTAACGCTGATGAGGCTTCCACATTA 840
   |||
DB 299 Phe11eAsnAsnLeuAsnLysThrAspAsnGlyThrTyrArgGluAlaAspAsn11e 318
OY 841 GTGGGAAGGCTCATTTGAGTGAATGATGATGATGATGATGATGATGATGATGATGATGAT 900
   |||
DB 319 ValGluLysAla11eAsnSerArgLysMetLeuTyrVal1LysProProThrThr11ePro 338
OY 901 CCTCCCAACAACAACACACACACATACACACACACACACACACACATCCTTACCATCATC 960
   |||
DB 339 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr 358
OY 961 ACAGATTTCTGAGAGCTGAAGAGGAGACATTTGGGCGAGTGCACAC 1008
   |||
DB 359 ThrAspSerArgAlaGluGluGluGluSer11eArgAlaValAspHis 374

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RESULT 10
AAB25586
XX AAB25586 strand: Protein: 364 AA.
AC AAB25586:

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XX 21-NOV-2000 (first entry)
DT Protein encoded by human secreted protein gene #11.
XX
DE
XX
XX Secreted protein; immunosuppressant; anti-inflammatory; antirheumatic;
XX antineuritic; dermatological; antiproliferative; antileukemic;
XX anticancer; vulnery; antiviral; antibacterial; antifungal;
XX immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;
XX multiple sclerosis; inflammatory disorder; inflammatory bowel disease;
XX Crohn's disease; nephritis; hyperproliferative disorder;
XX cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;
XX melanoma; lymphoma; wound healing; human.
XX
OS Homo sapiens.
XX
PN MO200029435-A1.
XX
PD 25-MAY-2000.
XX
XX 27-OCT-1999; 99WO-US25031.
XX
XX 28-OCT-1998; 98US-0105971.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI N1 J, Ruben SM, Olsen HS, Young PE, Kenny JI, Moore PA, Wei Y;
XX Greene JM;
XX
DR WPI: 2000-387742/33.
XX
DR N-PSDB: AAB20616.
XX
XX Isolated nucleic acid molecules encoding human secreted proteins are
XX used for the prevention, amelioration and treatment of autoimmune,
XX inflammatory, hyperproliferative and cardiovascular disorders, cancer,
XX wounds, and infectious diseases -
XX
XX Claim 1: Figure 28A-B: 803pp: English.
XX
XX The present invention relates to 12 secreted human proteins and the
XX nucleotide sequences encoding them. The polynucleotide sequences given
XX in AAB20616-A80623 encode the 12 secreted protein sequences given in
XX AAB25576-B25593. The human secreted proteins have various activities
XX dependent on the tissues in which they are expressed. Examples of the
XX activities of the proteins include: immunosuppressant;
XX anti-inflammatory; antirheumatic; dermatological;
XX antiproliferative; antileukemic; antineuritic; anticancer; vulnery;
XX antiviral; antibacterial; and antifungal activity. The proteins,
XX polypeptides, agonists and antagonists may be used to treat prevent
XX and/or diagnose various diseases, disorders and conditions examples of
XX which include: immune disorders e.g. Addison's disease, rheumatoid
XX arthritis, dermatitis, and multiple sclerosis; inflammatory disorders
XX e.g. inflammatory bowel disease, Crohn's disease and nephritis;
XX hyperproliferative disorders such as paraneoplasms and purpura;
XX cardiovascular disorders e.g. coronary arteriosclerosis and myocarditis;
XX cancer e.g. melanoma and lymphoma. The proteins and polynucleotide
XX sequences may also be used in wound healing and the treatment of
XX infectious diseases. The human secreted protein gene #11 and protein
XX sequences are represented in sequences AAB20616 and AAB25586. Sequences
XX AAB20677-A80682 represent genes related to the secreted protein gene#11.
XX
SQ Sequence 364 AA:

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Alignment Scores:
pred. No.: 4e-142
Score: 1694.00 Length: 364
Percent Similarity: 99.38% Matches: 323
Best Local Similarity: 99.38% Conservative: 0
Query Match: 93.90% Mismatches: 2
DB: 21 Indels: 0
Gaps: 0

```

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US-09-778-187B-3_COPY_62_1069 (1-1008) x AAB25586 (1-364)

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```
OY 1 ATCCCCACAGGTGATGACAGAACTGTTTACTAAAGACGTGACAGTGAATGAAGAGAA 60
DB 39 ILEPRTHTGlyAspGlyGlnAsnLeuPheThrLysAspValThrValIleGluGlyGlu 58
OY 61 GTGGCAACCATCAAGTCCCGAGTCAATAAGAGACACATCAGATCCAGCTCTTCAAC 120
DB 59 ValAlaThrIleSerCysGlnValAsnLysSerAspSerValIleGlnLeuAsn 78
OY 121 CCCAAGCAGCAGCACTATTCCTCAGGAGCTTCCAGGCTTGAAGAGACAGCTTTCAG 180
DB 79 ProAsnArgGlnThrIleTyrPheArgAspPheArgProLeuLysAspSerArgPheGln 98
OY 181 CTGCTGAATTTTCTCAGACGTGAATCAAGTGTCTCACTGACGAATGTCTCAATCTCGAT 240
DB 99 LeuLeuAsnPheSerSerSerGlnLeuLysValSerLeuThrAsnValSerIleSerAsp 118
OY 241 GAAGGAGAGACTTCTCCGAGCTCTACAGGACCCCGCCACAGAGAGATTCACACATC 300
DB 119 GluGlyArgTyrPheCysGlnLeuTyrThrAspProGlnGlnSerTyrThrIle 138
OY 301 ACAGTCTGCTTCCTCCAGCTTAATCTGATGATGATGATGATGATGATGATGATGATGAT 360
DB 139 ThrValLeuValProProArgAsnLeuMetIleAspIleGlnLysAspThrAlaValGlu 158
OY 361 GGGGAGAGAGATTGAAGTCAACTGACTGCGATGCGCAGCAGCAGCAGCAGCAGCAGCAG 420
DB 159 GlyGlnGlnIleGlnValAsnCysThrAlaMetAlaSerLysProAlaThrThrIleArg 178
OY 421 TGGTTCAAGGAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAG 480
DB 179 ThrPheLysGlnAsnThrGlnLeuLysGlyLysSerGlnValGlnGluTyrPheAspMet 198
OY 481 TACACTGTGACAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 540
DB 199 TyrThrValThrSerGlnLeuMetLeuLysValHisLysGlnLysAspGlyValProVal 218
OY 541 ATCTGCGCAGGTGAGACACCTCGGCTCACTGAGAACTGCGACGCCAGCCGCTACTGAAGA 600
DB 219 IleCysGlnValGlnHisProAlaValThrGlyAsnLeuGlnThrGlnArgTyrLeuGln 238
OY 601 GTGCATATATTAACCGCAAGGATATCCAGATGATGATGATGATGATGATGATGATGATGAT 660
DB 239 ValGlnTyrLysProGlnValHisIleGlnMetThrTyrProLeuGlnGlyLeuThrArg 258
OY 661 GAAAGGAGATGATTTGATTAAGTGTGAAGCCATCGGAAGCCCGAGCTGTGATGCTGA 720
DB 259 GluGlyAspAlaLeuGlnLeuThrCysGlnAlaIleGlyLysProGlnProValMetVal 278
OY 721 ACTTGGGTGAGACTGATGATGATAATGCTCAACATGCCGCTACTGTCTGGGCCAAACCTG 780
DB 279 ThrTrpValArgValAspAspGlnMetProGlnHisAlaValLeuSerGlyProAsnLeu 298
OY 781 TTCATCAATTAACCTTAACAAACAGATAACGAGTACTTACCGCTGTGAGGCTTCAACATA 840
DB 299 PheIleAsnAsnLeuAsnLysThrAspAsnGlyThrTyrArgCysGlnAlaSerAsnIle 318
OY 841 GTGGGAAAGGCTATTCGAGCTATATGCTGATGATGATGATGATGATGATGATGATGATGAT 900
DB 319 ValGlyLysAlaHisSerAspTyrMetLeuTyrValTyrAspProProThrThrIlePro 338
OY 901 CCTCCCAACAAACCAACCAACCAATACACACACACACACACACACACACCTTACATCARG 960
DB 339 ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIle 358
OY 961 ACAGATTCTCGAGCA 975
DB 359 ThrAspSerArgAla 363
```

```
RESULT 11
AAB88427
ID AAB88427 standard; Protein; 443 AA.
XX
AC AAB88427;
```

```
XX 23-MAY-2001 (first entry)
DT Human membrane or secretory protein clone PSRC0200.
XX
DE Human; secretory protein; membrane protein; vaccine; gene therapy;
XX rheumatoid arthritis; diabetes.
KW Homo sapiens.
OS EP1067182-A2.
XX
PN 10-JAN-2001.
XX
PD 07-JUL-2000; 2000EP-0114090.
XX
PF 08-JUL-1999; 99JP-0194179.
PR 11-JAN-2000; 2000JP-0118775.
PR 02-MAY-2000; 2000JP-0183766.
XX
XX (HELI-) HELIX RES INST.
PI Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;
XX
XX WPI; 2001-093989/11.
DR N-PSDB; AAF93854.
XX
XX Nucleic acids encoding secretory proteins/membrane proteins, useful in
PT gene therapy or as candidate target molecules in drug development -
XX
XX Claim 1: SEQ ID 222; 609pp + CD ROM; English.
XX
XX This invention relates to nucleic acid sequences AAF93744 - AAF93916
CC which encode human secretory or membrane proteins represented by
CC AAB88317 - AAB88419. Included in the invention are primers
CC AAF93917 - AAF94295 and AAF62232 - AAF62235 which are used to isolate the
CC cDNA sequences of the invention. The invention also includes methods for
CC the production of antibodies directed against the proteins, and cDNA
CC sequences, which can be used in vaccines. The polynucleotide sequences
CC can be used in gene therapy. The polynucleotide sequences and the
CC proteins they encode may be used in the prevention, treatment and
CC diagnosis of diseases associated with inappropriate secretory
CC protein/membrane protein expression. The nucleic acids and complementary
CC sequences may also be used as DNA probes in diagnostic assays
CC (e.g. polymerase chain reactions (PCR)) to detect and quantitate the
CC presence of similar nucleic acid sequences in samples. They may also be
CC used to study the expression and function of secretory proteins/membrane
CC polypeptides and their role in metabolism. The polypeptides may be used
CC as antigens in the production of antibodies against them and in assays to
CC identify modulators (agonists and antagonists) of expression and
CC activity. The antibodies and antagonists may also be used as therapeutic
CC agents to down regulate expression and activity. The antibodies may also
CC be used as diagnostic agents for detecting the presence of the
CC polypeptides in samples (e.g. by enzyme linked immunosorbant assay
CC (ELISA). Examples of diseases which may be treated include rheumatoid
CC arthritis and diabetes.
XX
XX Sequence 443 AA:
```

```
Alignment Scores:
Pred. No.: 4,54e-133 Length: 443
Score: 1592.50 Matches: 308
Percent Similarity: 92.88% Conservative: 5
Best Local Similarity: 91.39% Mismatches: 23
Query Match: 88.28% Indels: 1
DB: 22 Gaps: 1
```

```
US-09-778-187B-3_COPY_62_1069 (1-1008) x AAB88427 (1-443)
OY 1 ATCCCCACAGGTGATGACAGAACTGTTTACTAAAGACGTGACAGTGAATGAAGAGAA 60
DB 39 ILEPRTHTGlyAspGlyGlnAsnLeuPheThrLysAspValThrValIleGluGlyGlu 58
```



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OY 61 GTGGCAACCAATCACTGCTCCAGTCAATAGAGTACGACTGATGATCCAGCTCTCGAAC 120
DB 59 ValAlaThrIleSerCysGlnValAlaSnIysSerAspSerValIleGlnIleLeuAsn 78
OY 121 CCACAGGAGAGCAATTTCTTCCAGGACTTCAGGCTTGAAGGACACAGGTTTCAG 180
DB 79 ProAsnArgGlnThrIleIleTyrPheArgAspPheArgProLeuIysAspSerArgPheGln 98
OY 181 CTGCTGAATTTTCTAGACATGTAACATCAAGTGTCACTGACGAATGCTCAATCTCGAT 240
DB 99 LeuLeuAsnPheSerSerSerSerGlnLeuIleValSerIleThrAsnValSerIleSerAsp 118
OY 241 GAAGGAGATCTTCTGCGCAGCTTACACGACCCCGACAGAGAGTTACACACCATC 300
DB 119 GlnGlyArgTyrPheCysGlnLeuTyrThrAspProGlnGlnSerTyrThrThrIle 138
OY 301 ACAGTCTGCTTCTCCAGTCACTGATGATGATGATGATGATGATGATGATGATGATGAT 360
DB 139 ThrValLeuValIleProProAlaGlnLeuMetIleLeuIleGlnIysAspThrAlaValGln 158
OY 361 GGGGAGAGATTTGAACTCACTGACTGCTCCATGCGCCAGCAGCAGCAGCAGCAGCAGCAG 420
DB 159 GlyGlnGlnIleGlnIleValAlaSnIysSerThrAlaMetAlaSerIysProAlaThrThrIleArg 178
OY 421 TGGTTCAAGGAGCAAGCAAGCAACTCAAAAGCAATCAGAGGTGAGAGTGTGCGACATG 480
DB 179 TrpPheIysGlnIysAsnThrGlnLeuIysGlnIysSerGlnIleGlnIleGlnIleGlnIle 198
OY 481 TACACTGTGACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
DB 199 TyrThrValThrSerGlnIleMetLeuIysValIleIysGlnIysAspGlnIleProVal 218
OY 541 ATCTGCCAGGTGAGACACCTGCGGTCACTGGAACCTGCGACGCCAGCTGATCTAGAA 600
DB 219 IleCysGlnIleValIleIleIleIleIleIleIleIleIleIleIleIleIleIleIleIle 238
OY 601 GTCCAGATTAACCCGCAAGTGCATATCCAGATGATGATGATGATGATGATGATGATGATGAT 660
DB 239 ValGlnIleIysProGlnIleValIleIleIleIleIleIleIleIleIleIleIleIleIle 258
OY 661 GAAGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
DB 259 GlnGlnIleIleIleIleIleIleIleIleIleIleIleIleIleIleIleIleIleIleIle 278
OY 721 ACTTGGGTGAGAGTGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
DB 279 ThrTrpValArgValAlaSerAspGlnMetProGlnIleIleIleIleIleIleIleIleIle 298
OY 781 TTCATCAATTAACCTAAACAACAACAACAACAACAACAACAACAACAACAACAACAACA 840
DB 299 PheIleAsnAsnIleAsnIleAsnIleAsnIleAsnIleAsnIleAsnIleAsnIleAsnIle 318
OY 841 GTGGGAAGGCTCATTCGCGCTATATGCTGATGATGATGATGATGATGATGATGATGATGAT 900
DB 319 ValGlnIleIleIleIleIleIleIleIleIleIleIleIleIleIleIleIleIleIleIle 331
OY 901 CCTCCCAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACAACA 960
DB 331 ----- 331
OY 961 ACAGATTTCTGAGCAGGTGAGAGGAGGACCATTTGGGCGACATGAGACAC 1008
DB 332 ---AspSerArgAlaGlnIleGlnIleGlnIleGlnIleGlnIleGlnIleGlnIleGlnIle 346
RESULT 13
AAB25593
ID AAB25593 standard; Protein: 229 AA.
XX
AC AAB25593;
XX
DT 21-NOV-2000 (first entry)
XX
DE Protein encoded by human secreted protein gene #11 clone H0UDJ81.

```

```

XX Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic;
KW antirheumatic; dermatological; antiproliferative; antiarteriosclerotic;
KW anticancer; vulnary; antiviral; antibacterial; antifungal;
KW immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;
KW multiple sclerosis; inflammatory disorder; inflammatory bowel disease;
KW Crohn's disease; nephritis; hyperproliferative disorder;
KW cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;
KW melanoma; lymphoma; wound healing; human.
XX
OS Homo sapiens.
XX
PN WO200029435-A1.
XX
PD 25-MAY-2000.
XX
PF 27-OCT-1999; 99WO-US25031.
XX
PR 28-OCT-1998; 98US-0105971.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Ni J, Ruben SM, Olsen HS, Young PE, Kenny JJ, Moore PA, Wei Y;
PI Greene JM;
XX
DR MPI: 2000-387742/33.
XX
PT Isolated nucleic acid molecules encoding human secreted proteins are
PT used for the prevention, amelioration and treatment of autoimmune,
PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,
PT wounds, and infectious diseases.
XX
PS Claim 1; Page 685-686; 803pp; English.
XX
CC The present invention relates to 12 secreted human proteins and the
CC nucleotide sequences encoding them. The polynucleotide sequences given
CC in AAB80606-A80623 encode the 12 secreted protein sequences given in
CC AAB25576-B25593. The human secreted proteins have various activities
CC dependent on the tissues in which they are expressed. Examples of the
CC activities of the proteins include: immunosuppressant;
CC anti-inflammatory; antiarthritic; antirheumatic; dermatological;
CC antiproliferative; antiarteriosclerotic; anticancer; vulnary;
CC antiviral; antibacterial; and antifungal activity. The proteins,
CC polypeptides, agonists and antagonists may be used to treat prevent
CC and/or diagnose various disease, disorders and conditions examples of
CC which include: immune disorders e.g. Addison's disease, rheumatoid
CC arthritis, dermatitis, and multiple sclerosis; inflammatory disorders
CC e.g. inflammatory bowel disease, Crohn's disease and nephritis;
CC hyperproliferative disorders such as paraproteinemia and purpura;
CC cardiovascular disorders e.g. coronary arteriosclerosis and myocarditis;
CC cancer e.g. melanoma and lymphoma. The proteins and polynucleotide
CC sequences may also be used in wound healing and the treatment of
CC infectious diseases. The human secreted protein gene #11 and protein
CC sequences are represented in sequences AAB80616 and AAB25586. Sequences
CC AAB80677-A80682 represent genes related to the secreted protein gene#11.
XX
SQ Sequence 229 AA:
XX
Alignment Scores:
Pred. No.: 229
Score: 1133.50 Length: 229
Percent Similarity: 96.48% Matches: 218
Best Local Similarity: 96.04% Conservative: 6
Query Match: 62.83% Mismatches: 1
DB: 21 Gaps: 2
US-09-778-187B-3_COPY_62_1069 (1-1008) x AAB25593 (1-229)
OY 328 ATGATCGATATCCAGAAAGACGCGAGTTGAAGGGAGAGATTGAAGTCAACTGACT 387
DB 1 MetIleAspIleGlnIysAspThrAlaValGlnIleGlnIleGlnIleValAlaSnCysThr 20
OY 388 GCCATGGCCAGCAAGCAGCAGCAGCATTCAGTGTGTTCAAAAGCAACAAGAACTCAA 447

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Db	21	AlaMetAlaSerLysProAlaThrThrIleArgTrpPheLysGlnAnThrGlnLeuLys	40
Oy	448	GGCAAAATCAGAGTGTGAGAGTGGTCTGGACATGTATACACTGTGACCACTAGCTGATCTG	507
Db	41	GlyLysSerGlnValGlnGlnTrpSerAspMetGlyThrValThrSerGlnLeuMetLeu	60
Oy	508	AAAGTCACAAAGAGAGACACAGGGGGTCCCGGTATCTGACAGGTGGAGACACCTCGCGTC	567
Db	61	LysValHisLysGlnAspAspGlyValProValIleCysGlnValGlnHisProAlaVal	80
Oy	568	ACTGAACAACCGCGACCCAGCCGCTATCTAGAAGTGCAGATAAACCGCAAGTGCATATC	627
Db	81	ThrGlnLysLeuGlnThrGlnArgTrpLeuGlnValGlnIleTrpLysProGlnValHisIle	100
Oy	628	CAGATGACTTACCTCTGCAAGAGCCCTAACCCGGGAGGGAGTGCATTGAGTTAACGCTGT	687
Db	101	GlnMetThrTrpProLeuGlnGlnIleThrArgGlnIleLysPheAlaLeuGlnLeuThrCys	120
Oy	688	GAACCCATCGGGAGAACCCCAAGCCTGTGATGGTAACTTGGGTGAGAGTCGATGAAATG	747
Db	121	GlnAlaIleGlyLysProGlnProValMetValThrTrpValArgValAspAspGlnMet	140
Oy	748	CCCTAACATGGCCGATACGTCGTGGGCCAACCCCTGTTCATCAATAACCTAAACAACAGAT	807
Db	141	ProGlnHisAlaValAlaLeuSerGlyProAsnLeuPheIleAsnLeuAsnLysThrAsp	160
Oy	808	AACGCTACTTACCCCTGTGAGGCTTCCAAATAGTGGGAAAGGCTCAATTCGGACTATATG	867
Db	161	AsnGlyThrTrpArgCysGlnAlaSerAsnIleValIleLysAlaHisSerAspTyrMet	180
Oy	868	CTGTATGTATACGATCCCGCCACACATATCCCTCTCCACAAACACCACCACCTAAC	927
Db	181	LeuTyrValTyrAspProProThrThrIleProProProThrThrThrThrThrThrThr	200
Oy	928	ACCAACACACACACACACACATCCCTAACATCATCATCAATCTCTCAG---CAGGTGAAG	984
Db	201	ThrThrThrThrThrThrThrIleLeuThrIleIleThrAspSer-ProSerGlnValLysLys	220
Oy	985	GGGACCAATTGGGCGCAGTGG 1003	
Db	220	GAlaArgSerGlnGlnTrp 226	
RESULT 14			
AAAT78418			
ID AAM78418 standard; Protein: 387 AA.			
xx	xx	xx	xx
AC	AAAT78418:		
xx	xx	xx	xx
DT	06-NOV-2001 (first entry)		
xx	xx	xx	xx
DE	Human protein seq ID NO 1080.		
xx	xx	xx	xx
KW	Human: cytokine; cell proliferation; cell differentiation; gene therapy		
KM	vaccine; peptide therapy; stem cell growth factor; haematopoiesis;		
KW	tissue growth factor; immunomodulatory; cancer; leukaemia;		
KM	nervous system disorder; arthritis; inflammation.		
xx	xx	xx	xx
OS	Homo sapiens.		
xx	xx	xx	xx
PN	MO200157190-A2.		
PD	09-AUG-2001.		
xx	xx	xx	xx
PF	05-FEB-2001; 2001MO-US04098.		
xx	xx	xx	xx
PR	03-FEB-2000; 2000US-0496914.		
PR	27-APR-2000; 2000US-0560875.		
PR	20-JUN-2000; 2000US-0598075.		
PR	19-JUL-2000; 2000US-0620325.		
PR	01-SEP-2000; 2000US-0654936.		
PR	15-SEP-2000; 2000US-0663561.		
PR	20-OCT-2000; 2000US-0693325.		

XX 30-NOV-2000; 2000US-0728422.
PA (HYSE-) HYSEQ INC.
PI Tang YT, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;
P1 Zhao QA, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
PI Xue AJ, Yang Y, Wejhtman T, Goodrich R,
XX WPI: 2001-476283/51.
DR N-PSDB; AAK51551.
XX
PT Nucleic acids encoding polypeptides with cytokine-like activities,
PT useful in diagnosis and gene therapy -
XX
PS Claim 20; Page 3307-3308; 6221pp; English.
XX
CC The invention relates to polynucleotides (AAK51456-AAK53435) and the
CC encoded polypeptides (AAM78323-AAM80302) that exhibit activity elating
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and the polypeptides are useful in gene therapy, vaccines o
CC peptide therapy. The polypeptides have various cytokine-like activities
CC e.g. stem cell growth factor activity, haematopoietic regulatory
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.
CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
CC (AAM80020) are omitted as the relevant pages from the sequence listing
CC were missing at the time of publication.
XX
SO Sequence 387 AA:

Alignment Scores:
Pred. No.: 1.46e-47 Length: 387
Score: 631.00 Matches: 124
Percent Similarity: 61.39% Conservative: 62
Best Local Similarity: 40.32% Mismatches: 111
Query Match: 34.98% Indels: 6
DB: 22 Gaps: 3

US-09-778-187B-3_COPY_62_1069 (1-1008) x AAM78418 (1-387)

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QY      10 GGTGATGCACAGAACTCTGTTACTAAAGACGTGACAGTGGATTGAAGAGAACTGCCAAC 69
        |||         |::          |:|:|||||||         |||||         |||||
Db       21 GTAGAAGlglnglValAlgnrHfrcLnsnValJtnrValAlaglglgylValAlglu 40

QY      70 ATCAGCTCCGACGTAATAAAGATGACCACTAGTGATTCAGCTCTGAACCCCAACAG 129
        |||         |::          |:|:|||||||         |||||         |||||
Db       41 lEtrrCyArgrLenlnlgLnTrsprglSerllLevalVallllgLnAsnrProAlenrg 60

QY      130 CAGACCATTATTCAGGAGACTTCAGGCGCTTTGAAGACAGCACGTTTTACAGCTGCAAT 189
        |||         |::          |:|:|||||||         |||||         |||||
Db       61 GlmrPrleRphrPhasnclYthrArgAlalaleuLyAsrBgLuargPhegnleuLncLu 80

QY      190 TTTTCTAGCAGTAACAAGTGTCACTGACGAATGTCTCAATCTCGGATGAAGAGAGA 249
        |||||         ::::::    |:|:|||||||         |||||         |||||
Db       81 PheserProarGrArgValArgllleArgleuserAaprlAlargleuClunsprrlglgly 100

QY      250 TACTTCTGCGACGCTTACACGGACCCCCACAGAGAGTTACACCAACCATCACAGTCTG 309
        |||||         ::::::    |:|:|||||||         |||||         |||||
Db       101 TrphecysGlnleutyfrHcrluAsprHrnIshlnslgLnllleAlatrHreLyuValleu 120

QY      310 GTTCTCCACAGTAATCTGTATGATGCATATCAGAAAACAGACGCGATTGAAGGGAGAG 369
        |||         |::          |:|:|||||||         |||||         |||||
Db       121 ValAlarProGlunAsnrProValAlgluVal--ArggluglnAlaValaIdulglglgu 139

QY      370 ATTGAAGTCAACTGACTACTGCGCAGACCAAGCAGCAGCAGCATCAGTGTTCANA 429
        ::::::::::|::|         |::|:|||||||         |||:||||:|:|:|:|:|:|:|
Db       140 ValGluleuserCysyleuValrProkrgserrArgProAlalaIatHrleuakgrtpryArg 159

QY      430 GGGAACAGGAACCTCAAAGCAATTCAGAGGTGGAGAGTGGTCCGACATGTACACTGTG 489
        |||||         |::          |:|:|||||||         |||||         |||||

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Db	160	AspArgIuVsgIuLeuLysGluValSerSerSerGlnGluSngIuLysValITrpserval	179
Oy	490	ACCACTACGCTGATGCTGAAGCTCACAAGAGCAGCGGGCTCCGGTATCTGCCAG	549
Db	180	AlaSerThrValAlaArgPheArgValAspArgLysAspAspIyglIleIleIleCysGlu	199
Oy	550	GTMGGAGCCCTCGGCGTCACTGGA-----AACCTGCAGACCCAGCGCTATCTGAAGATG	603
Db	200	AlaGlnAsnGlnAlaLeuProSerGlnHisSerLysGlnThrGlnTyValLeuAspVal	219
Oy	604	CAGTATAAACCCGCAAGTGCATATTCACATGCAATGCACTTACCTCTGCAGGCGCTAACCCGGAA	663
Db	220	GlnTySerProThrAlaArgIleHisAlaSer-----GlnAlaValAlaArgIu	236
Oy	664	GGGATGCATTGTAGGTTAAGCTGTGAAGCCATCGGGAAGCCCGCCTGTGATGTACT	723
Db	237	GlyAspThrLeuValLeuThrCysAlaValThrGlnSngProArgProAsnGlnIleArg	256
Oy	724	TGGGGAACAGTCGATMGATGGAATGCTGCACATCCGCTACTGCTGGGCGCAACCTGTTTC	783
Db	257	TrpSnaArgGlyAsnGluSerLeuProGluArgAlaGluAlaValGluIuThrLeuThr	276
Oy	784	ATCATATACTTAACCAAAACAGATTAAGGTACTTACCGCTGTGTGAGCTTCAACATAGTG	843
Db	277	LeuProGlyLeuValSerAlaAspAsnGlyThrTyThrCysGluAlaSerAsnLysHis	296
Oy	844	GGAAGGCTCATTCGAGCATATATGCTGTATGTATAGATAGCATCCGCCACACTATCCCTCT	903
Db	297	GlyHisAlaArgAlaLeuTyValLeuValValTyAspProGlyAlaValGluAla	316
Oy	904	CCCAACAACA 912	
Db	317	GlnThrSer 319	
RESULT 15			
AAAY33741			
ID	AAAY33741 standard; Protein: 444 AA.		
XX	AAAY33741;		
AC	09-NOV-1999 (first entry)		
XX	Beta-secretase.		
DE	Beta-secretase.		
XX	Beta-secretase; beta-amyloid protein precursor; APP; Down's syndrome;		
KW	Alzheimer's disease.		
XX	Homo sapiens.		
OS			
XX	Key		
FH	Location/Qualifiers		
FT	Peptide 1..23		
FT	Protein /label= Signal_peptide 24..444		
FT	Region /label= beta-secretase 377..399		
FT	/note= "Putative transmembrane region"		
XX	US5942400-A.		
PN			
XX	24-AUG-1999.		
PD			
XX	07-JUN-1996; 96US-0659984.		
PF			
XX	07-JUN-1996; 96US-0659984.		
PR	07-JUN-1995; 95US-0480498.		
PR	07-JUN-1995; 95US-0485152.		
XX	(ELAN-) ELAN PHARM INC.		
PA			
PI	Anderson JP, Jacobson-Croak KL, Sinha S;		
XX	WPl; 1999-517417/43.		
RR	N-PSDB; AAZ06640.		

[illegible]

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GenCore version 5.1.3
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OM nucleic - protein search, using frame_plus.n2p model

Run on: November 20, 2002, 07:44:26 ; Search time 69.25 Seconds
(without alignments)
5998.426 Million cell updates/sec

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Scoring table: BLOSUM62
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Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 671580 segs, 206047115 residues
Total number of hits satisfying chosen parameters: 1343160

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
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-WARN_TIMEOUT=30 -THREDS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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3: sp_bacteria:*
4: sp_fungi:*
5: sp_human:*
6: sp_invertebrate:*
7: sp_mhc:*
8: sp_mhc:*
9: sp_organelle:*
10: sp_plant:*
11: sp_ricent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacteriap:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1765	97.8	445	11	QBR4L1 mus musculus

2	1749.5	97.0	456	11	QBR5M8	QBR5M8 mus musculus
3	1749.5	97.0	494	11	QBR5M8	QBR5M8 mus musculus
4	1738	96.3	442	4	Q9BY67	Q9BY67 homo sapien
5	1541	85.4	336	11	Q9D6E7	Q9D6E7 mus musculus
6	1204	66.7	295	11	Q9Z2B8	Q9Z2B8 mus musculus
7	1171.5	64.9	306	11	Q9QYL4	Q9QYL4 mus musculus
8	1151	63.8	295	11	Q9QYL6	Q9QYL6 mus musculus
9	1062	58.9	289	11	Q9QYL5	Q9QYL5 mus musculus
10	1038.5	57.6	278	11	Q9QYL3	Q9QYL3 mus musculus
11	624	34.6	388	11	QBR4E4	QBR4E4 mus musculus
12	611	33.9	381	4	Q9Y4A4	Q9Y4A4 homo sapien
13	480.5	26.6	396	11	Q99N28	Q99N28 mus musculus
14	467.5	25.9	432	4	Q9QUP1	Q9QUP1 homo sapien
15	298	16.5	549	11	Q9D006	Q9D006 mus musculus
16	296	16.4	510	11	Q9JLB8	Q9JLB8 mus musculus
17	295	16.4	549	11	Q9JLB7	Q9JLB7 mus musculus
18	294	16.3	438	11	Q9JLB7	Q9JLB7 mus musculus
19	289	16.0	549	4	Q9NDS3	Q9NDS3 homo sapien
20	261.5	14.5	5198	5	Q76518	Q76518 caenorhabd
21	252	14.0	439	13	Q57349	Q57349 gallus gall
22	252	14.0	1482	5	Q9V4Y0	Q9V4Y0 drosophila
23	245	13.6	407	4	Q9Y412	Q9Y412 homo sapien
24	238	13.2	725	13	Q73633	Q73633 xenopus lae
25	237	13.1	1102	11	Q9Z3W7	Q9Z3W7 mus musculus
26	234	13.0	393	4	Q95727	Q95727 homo sapien
27	228.5	12.7	7962	4	Q10465	Q10465 homo sapien
28	228.5	12.7	34350	4	Q8W242	Q8W242 homo sapien
29	226	12.5	4162	13	Q98918	Q98918 gallus gall
30	225	12.5	1032	13	Q8UVD6	Q8UVD6 brachydanio
31	222	12.3	725	13	Q73634	Q73634 xenopus lae
32	221	12.1	344	4	Q9P121	Q9P121 homo sapien
33	220.5	12.2	449	4	Q9UE16	Q9UE16 homo sapien
34	220	12.2	344	13	Q9DF61	Q9DF61 gallus gall
35	220	12.2	467	11	Q91V79	Q91V79 mus musculus
36	220	12.2	1675	13	Q98SM4	Q98SM4 brachydanio
37	219.5	12.2	1270	5	Q9U3P2	Q9U3P2 caenorhabd
38	219	12.1	344	11	Q99P00	Q99P00 mus musculus
39	219	12.1	1380	4	Q9HCK4	Q9HCK4 homo sapien
40	217.5	12.1	975	5	Q97174	Q97174 drosophila
41	217	12.0	417	4	Q96B01	Q96B01 homo sapien
42	216.5	12.0	605	4	Q96J84	Q96J84 homo sapien
43	216	12.0	1060	11	Q9QZ13	Q9QZ13 retus norv
44	215.5	11.9	1056	13	Q9QZ03	Q9QZ03 xenopus lae
45	215	11.9	4370	4	Q9H3V5	Q9H3V5 homo sapien

ALIGNMENTS

RESULT 1
ID QBR4L1 PRELIMINARY: PRT: 445 AA.
AC QBR4L1;
DT 01-JUN-2002 (TREMblrel. 21, Created)
DT 01-JUN-2002 (TREMblrel. 21, Last sequence update)
DE Tumor suppressor in Lung Cancer 1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathu; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN (1)
RP SEQUENCE FROM N.A.
RC STRAIN=129/SVJ;
RA Fukami T., Maruyama T., Murakami Y.;
RT Identification of murine orthologs of the TSLC1 gene.;
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF344663; AAL86736.1; -;
SQ SEQUENCE 445 AA; 48664 MW; C5D5A070DAF70E55 CRC64;

Alignment Scores:
Pred. No.: 2, 22e-146 Length: 445
Score: 1765.00 Matches: 336
Percent Similarity: 100.00% Conservative: 0

Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	97.84%	Indels:	0
DB:	11	Gaps:	0

US-09-778-187B-3_COPY_62_1069 (1-1008) x Q8R4L1 (1-445)

OY	1	ATCCCAAGGATGATGGACAGAAATCTGTGTACTAAAGCACTGACAGCTGATTGAAGGAGAA	60
Db	42	IIlePrrthngIyaspGlyglInasnuLeuPhehThrylsaspValThrValIIleGluGlylu	61
OY	61	GTGGCAACCAATCAGTGTCCAGGCTCAATTAAGATGACAGCTCAGTATCCACCTCTCAAC	120
Db	62	ValAlaThrIIleSerCysGlnValAsnlySerAspSerValIIleGlnLeuLeuAsn	81
OY	121	CCCAACAGGCAAGACCATTTAACCTCAGGACTTCAGGCCCTTTGAAGGACAGCAGGTTTCAG	180
Db	82	ProAsnArgGlnThrIIleTyrPheArgpPheArgProLeuIyAspSerArgPheGln	101
OY	181	CTGGCGAATTTTTTCAGAGGTGAAGTCAAACTGTCCACTGACGAGATGTCTCAATCTGGAT	240
Db	102	LeuLeuAsnPrpIleSerSerSerGluLeuIyValSerLeuThrAsnValSerIIleSerAsp	121
OY	241	GAAGGAGATACTTCTGTCCACTGTACACGGAGCCCCACAGAGAGATTACACCAACATC	300
Db	122	GluGlyArgTyrPheCysGlnLeuTyrThrAspProProGlnGlnSerTyrThrThIle	144
OY	301	ACAGTCTGTGTTCTCCACGTAACCTTGATGATGATATCCAGAAAGACAGCGCAGTTGAA	360
Db	142	ThrValLeuValProProArgAsnLeuMetIIleAspIIleGlnIyAspThrAlaValGlu	161
OY	361	GGGAGGAGATTGAAGTCAACTGACTACTGCCCTGGCCAGAAAGCCAGGAGACCACTTACG	420
Db	162	GlyGluGlnIIleGluValAsnCysThrAlaMetAlaSerIySProAlaThrThIleArg	181
OY	421	TGGTTCAAGAGGAACAAGAACTCAAGGCAAAATCAGAGGTGAAGAGTGGTGGGACATG	480
Db	182	TrpPheIySglYAsnIySgluLeuIyGlyIySerGluValGluGluTrpSerAspMet	201
OY	481	TACACTGTGACCACTCAGCTGATCTGAAGTGCACAAAGAGACAGCGGGTCCGGTG	540
Db	202	TyrThrValThrSerGlnLeuMetLeuIySValIhIySgluAspAspGlyValProVal	221
OY	541	ATTCGCAAGGSGAGCAACCCGCGGTACTGAGAAACCTGGAGACCCGAGCCCTTCTAGAA	600
Db	222	IIleCysGlnValGluIhIySProAlaValThrGlyAsnLeuGlnhIyGlyIyLeuGlu	241
OY	601	GTGCAAGTAAACCCGCAAGTGCATATCCAGATGACTTACCTCTGCAGAGGCTTAACCCG	660
Db	242	ValGlnTyrIySProGlnValIhIhIleGlnMetThyTrpLeuGlnGlyLeuThrArg	261
OY	661	GAAGGGGATGCAATTGAGTTAAGCTGTGAAGGCAATCGGGAAGCCCAAGCCTGTGATGTA	720
Db	262	GluIyIySPrAlaPheGluLeuThrCysGluAlaIleGlyIySProGlnProValMetVal	281
OY	721	ACTTGGGTGAGAGTGCATGTGATGAATCCCAACATCCCTACTGTCTGGGCAAACTG	780
Db	282	ThrTrpValAlaArgValaAspAspGluMetProGlnIhIhAlaIleuSerGlyProAsnLeu	301
OY	781	TTTCATCAATACCTAAACAAACAGATACGGTACTTACCGCTGTGAGCCTTCCAAATAT	840
Db	302	PheIIleAsnAsnLeuAsnIySThrAspAsnGlyThrTyrArgIySgluAlaSerAsnIle	321
OY	841	GTGGGAAGGCTCATTCGGGACTATTCCTGTATGTATACATCCCCCAACTATACCT	900
Db	322	ValIyIySAlaIhIhSerAspTyrMetLeuTyrValIyIySPrProThrThrIlePro	341
OY	901	CTTCCCAACAACCAACACCACTACACACACACACACACCAACCACTTACCATATC	960
Db	342	ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrIleLeuThrIleIle	361
OY	961	ACAGATTCTCAGCAGGTGAAGAGGAGCACTTGGGCACTGGACCAAC	1008
Db	362	ThrsPheArgAlaGlyGluGluGlyThrIIleGlyAlaValaAspIhS	377

RESULT	ID	Q8R5M8	PRELIMINARY:	PRU:	456 AA.
AC	Q8R5M8	01-JUN-2002 (TREMBLrel. 21, Created)			
DT	01-JUN-2002 (TREMBLrel. 21, Last sequence update)				
DT	01-JUN-2002 (TREMBLrel. 21, Last annotation update)				
DE	RA175.				
GN	RA175.				
OS	Mus musculus (Mouse).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				
OX	NCBI_TaxID=10090;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RA	Momoi T.;				
RT	"Biological function of RA175, a new member of immunoglobulin super				
RT	family";				
RL	Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.				
DR	EMBL; AB064265; BAB83501.2; -.				
SD	SEQUENCE 456 AA; 49787 MW; 3226E8664BC1C7F CRC64;				
Alignment Scores:					
Pred. No.:	5	13e-145	Length:	456	
Score:	1749.50		Matches:	336	
Percent Similarity:	96.83%		Conservative:	0	
Best Local Similarity:	96.83%		Mismatch:	0	
Query Match:	96.98%		Indels:	11	
DB:	11		Gaps:	1	
US-09-778-187B-3_COPY_62_1069 (1-1008) x Q8R5M8 (1-456)					
QY	1	ATCCCCACAGGTGATGACAGAAATCTGTTACTTAAGACGTGATGAAGAGAA	60		
DB	42	11EProthnglyAspglyGlnshsneuehthrlyAspsvalThrval11leg1uglyGlu	61		
QY	61	GTGGCAACCATCAGCTGCCAGGTAATATAGGTGACGACTAGTATCCAGCTCTTAAC	120		
DB	62	ValAlaThr11leSerCysGlnValAsnlySerAspserVal11leg1nleuLeuAsn	81		
QY	121	CCCAACAGGACAGACATTTACTTCAGGGACTTCAGGCTTGAAGAGACAGAGTTTCAG	180		
DB	82	ProAsnArgGlnThr11leTyrPheArgAspPheArgProLeuLyshsSerArgPheGln	101		
QY	181	CTGTGAATTTTCTAGCAGTGAACCTCAAAAGTGTCTACTGACGAATGTCTCAATCTCGAT	240		
DB	102	LeuLeuAsnPheserSerSerGlnleuLyValser1euthrAsnValser11leSerAsp	121		
QY	241	GAAGGAGATCATCTTCGCCACTCTACACGAGACCCCCACAGAGAGATTTACACGATC	300		
DB	122	G11uglyArgTyrPheCysGlnleuTyrThrAspProGlnGlnSerTyrThr11le	141		
QY	301	ACAGTCCGTGCTCTCCACAGTAATGATGATGCATATCCAGAAAGACAGGAGTTGAA	360		
DB	142	ThrVal11leuValProProArgAsnleuMet11leSpl1eGlnlyshsPrr1AlaValGlu	161		
QY	361	GGGAGAGATTTGAATCACTGACTGATGCCATGGCCAGCAAGCCAGGACCATCAGG	420		
DB	162	GlyGlnGln11leg11uValAsnCyThr1AlaMet11aser1yProAlaThr11r11leArg	181		
QY	421	TGGTTCAAAAGGAGCAAGAACTCAAAAGCAAAATCAAGAGTGGAGAGTGGTGACATG	480		
DB	182	TriPhe1yshsGlyAsn11yshsGlnleuLyshsGly1yshsSerGlnValGlnGlnTyrPserAspMet	201		
QY	481	TACACTGTGACCACTACGTGATCTCAAGGTGACCAAGAGGACGAGGGGTCCGGTG	540		
DB	202	TyrThrVal11rSerGlnleuMet11uValHis1yshsGlnshsPspGlyAlProVal	221		
QY	541	ATTCGACAGGTGAGACCCCTGCGGTCTACATGGAAACCTTCGACAGCCAGGCTTCTAGAA	600		
DB	222	11leCysGlnValGln11h1shsProAlaVal11rGlyAsnleuGln11rGlnArgTyrLeuGln	241		

OY 601 GTGCACTATATAACCCGACATGATATCCAGATGACTTACCCTCTGCAAGCCCTAACCCGG 660
|||||
DB 242 VALGINTYLYSPROGLINVAIHISLEGIMETHTTYPROLEUCLINGLYLEUTHRATG 261
OY 661 GAAGGGAGTCATTTGAGTTAAGCTGTGAAGCATTCGGGAACCCCAAGCCTGTGATGTA 720
|||||
DB 262 GUGLYASPAIAPhEGLIuEUTHrCYSGIuAIAIEGLYLSPrOGLInPrOvAlMeTVAI 281
OY 721 ACTTCGGTGAGAGTCGATGATGAATGCTCTCAACATGCCGTACTGTCTGGCCAAACCTG 780
|||||
DB 282 THTTPVALATGVALASPAISPrGImETPrOGLInHISAlAValLEuSERGLYPrOASnLEu 301
OY 781 TTCATCATTAACCTTAACAAAACAGATAACGGTACTTACCCTGTGAGCCTTCCACATTA 840
|||||
DB 302 PHEILEASnPLASnLEuASnLYSThrASPAISnGLYThrTYArgCYSGIuAIAIEASnILE 321
OY 841 GTGGGAACGCTCATTCGGAGCTATATGCTGTATGTATAGCATGCCCCCAACATACCTCCT 900
|||||
DB 322 VALGILYLSAIAHISerASPrTYMeLEUTHrVALTYrASPrOPrOThrTrILEPrO 341
OY 901 CCTCCCAACAACACACACACACTACACACACACACACACATCCCTTACCATCATATC 960
|||||
DB 342 PROPrOThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThr 361
OY 961 ACA-----GATTCCTGACGAGGTGAAGGGG 987
|||
DB 362 ThrASPrThrThrAlAThrThrGluPrOAlAValHISASPrerArgIAIEGLYGIuGLY 381
OY 988 ACCATTGGGGCAGTGGACCAC 1008
|||||
DB 382 ThrILEGLYAlAValASPhIS 388

RESULT 3
O9CRY3
ID O9CRY3 PRELIMINARY: PRT: 494 AA.
AC O9CRY3:
DT 01-JUN-2001 (TReMBLrel. 17, Created)
DT 01-JUN-2001 (TReMBLrel. 17, Last sequence update)
DT 01-DEC-2001 (TReMBLrel. 19, Last annotation update)
DE 31000011081K protein (Fragment).
GN IGSP4 OR 31000011081RK.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=EMBRYONIC HEAD;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shimagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamaneke I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner N., Batalov S., Casavant T.,
RA Fleschmann W., Gasteierland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schiml L.M., Staubl F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Balarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Guelinckich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Norone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Saeki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyo-Oka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohlsuki S.,
RA Hayashizaki Y.,
RT "Functional annotation of a full-length mouse cDNA collection."
RL Nature 409:685-690(2001).
DR EMBL: AK013911: BAB28050.1: -.
DR MGD: MG1:1889272: 198f4.
DR InterPro: IPR003599: 19.
DR InterPro: IPR003598: 19_c2.

DR InterPro: IPR003600: Ig_Like.
DR InterPro: IPR003006: Ig_MHC.
DR Pfam: PF00047: 1g: 3.
DR SMART: SM00409: IG: 3.
DR SMART: SM00408: IGc2: 3.
DR SMART: SM00410: IG_Like: 1.
KW Immunoglobulin domain.
FT NON_TER 1
SQ SEQUENCE 494 AA: 53946 MW; F5E09ABA1857ABCO CRC64;

Alignment Scores:
Pred. No.: 5,21e-145 Length: 494
Score: 1749.50 Matches: 336
Percent Similarity: 96.83% Conservative: 0
Best Local Similarity: 96.83% Mismatches: 0
Query Match: 96.98% Indels: 11
DB: Gaps: 1

US-09-778-187B-3_COPY_62_1069 (1-1008) x O9CRY3 (1-494)
OY 1 ATCCCCAGAGTGATGGAGAGAACTGTTTACTTAAGACGTGACAGTGTGAAGAGAA 60
|||||
DB 80 IIEPrOThrGILYASpGLYGLInSnLEuPhEThrLYASPAValThrValIIEGLYGLY 99
OY 61 GTGGCAACCATGACGTGCCAGGTCAATTAAGATGACGACTGATGATCCAGCTCTGAAAC 120
|||||
DB 100 VALAlAThrILeserCYSGIuAIAISnLYSserASPrASPrValIIEGLInLEuASn 119
OY 121 CCCAACAGCAGACACCTTTACTTCAGAGACTTCAGCCCTTTGAAGACAGCAGGTTTCAG 180
|||||
DB 120 PrOASnArgGLInThrILeThrLYrPhEArgASPrPhEArgPrOLEuLYSsPrerArgPhEGLn 139
OY 181 CTGCTGAATTTTCTAGAGTGAAGTCAAGAGTCACTGACGAGATGCTCAATCTCGAT 240
|||||
DB 140 LEuLEuASnPheserSerSererGLuLEuLYSvalSerLEuThrASnValSerILeserASp 159
OY 241 GAAGGAGATACTTCTGACAGCTTACACGAGACCCCAAGAGAGATTACACCACTATC 300
|||||
DB 160 GILYGLYArgTYrPhECYSGInLEUTHrThrASPrPrOGLInGLYserTYrThrThrILE 179
OY 301 ACAGCTCGGTCTCTCCAGCTAAGTATGATGATGATGATGATGATGATGATGATGATGATGAT 360
|||||
DB 180 ThrValLEuValPrOPrOArgASnLEuMETILEASPrILEGLInLYSsPhrAlAValGLY 199
OY 361 GGGAGAGATTTGAATCAACTGATCTGACATGCCATGCCAGACGACGACGACGACATCAG 420
|||||
DB 200 GILYGLYGLInILEGLYValASnCYSThrAlAMETAlASerLYSPrOAlAThrThrILEArg 219
OY 421 TGGTTCAAAAGGAAACAGAACTCAAAAGCCAAATCAGAGGTGGAGAGTGTGACATG 480
|||||
DB 220 TrPrPhELYGLYASnLYSGIuLEuLYSGIYLSerGLYValGLYGLInTrPrSerASpMet 239
OY 481 TACACTGTACACAGTACGTAGTGTGAGAGGTGCACAAAGAGAGACACAGCGGTCGGGTG 540
|||||
DB 240 TYrThrValThrSerGLInLEuMETILEuLYSValHISLYSGIuASPrASPrGLYAlPrOVal 259
OY 541 ATCTGCAGGTGAGACACCTGCGCTGACATGGAAACCTGACAGCCAGCGGCTTATAGAA 600
|||||
DB 260 IIECYSGInValGLInHISPrOAlAValThrGLYASnLEuGLInThrInrTYrLEuGLY 279
OY 601 GTGCACTATATAACCCGACATGATATCCAGATGACTTACCCTCTGCAAGCCCTAACCCGG 660
|||||
DB 280 VALGINTYLYSPROGLINVAIHISLEGIMETHTTYPROLEUCLINGLYLEUTHRATG 299
OY 661 GAAGGGAGTCATTTGAGTTAAGCTGTGAAGCATTCGGGAACCCCAAGCCTGTGATGTA 720
|||||
DB 300 GUGLYASPAIAPhEGLIuEUTHrCYSGIuAIAIEGLYLSPrOGLInPrOvAlMeTVAI 319
OY 721 ACTTCGGTGAGAGTCGATGATGAATGCTCTCAACATGCCGTACTGTCTGGCCAAACCTG 780
|||||
DB 320 THTTPVALATGVALASPAISPrGImETPrOGLInHISAlAValLEuSERGLYPrOASnLEu 339
OY 781 TTCATCATTAACCTTAACAAAACAGATAACGGTACTTACCCTGTGAGCCTTCCACATTA 840

Db	340	PhellessanbleanuslvsThraspascilyThrTyAlaGcysAlaSerSnlle	359
OY	841	GTGGAAAGGCTCATTCGGACATATATGCTATGATATAGATCCCCCAACATATCCCT	900
Db	360	ValGlyLysAlaHisSerAspTyrMetLeuTyrValTyrAspProProThrThrIlePro	379
OY	901	CTTCCACAAACAAACCACCACCACATACACACACACACACACATCTTTCATCATATC	960
Db	380	ProProThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrThrIleIle	399
OY	961	ACA-----GATTCGACACAGTGAAGAGGCG	987
Db	400	ThrsAspThrThrAlaThrThrGluProAlaValHisAspSerAlaGlaGlyGluGly	419
OY	988	ACCAATTGGGGCAGTCGACCCAC	1008
Db	420	ThrIleGlyAlaValAspHis	426
RESULT 4			
O9BY67		PRELIMINARY;	PRT; 442 AA.
AC	O9BY67;		
DT	01-JUN-2001 (TREMBLrel. 17, Created)		
DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)		
DT	01-DEC-2001 (TREMBLrel. 19, Last annotation update)		
DE	Nectin-like protein 2.		
GN	NCE12.		
OS	Homo sapiens (Human).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.		
OX	NCBI_TaxID=9606;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RA	Zhou Y., Du G., Chen J., Yuan J., Qiang B.;		
RT	"Cloning of a novel human cDNA encoding a member of the immunoglobulin		
RL	superfamily.";		
RL	Submitted (MAR-1999) to the EMBL/GenBank/DBJ databases.		
DR	EMBL; AF132811; AAF69029.1; -.		
DR	InterPro: IPR003599; Iq.		
DR	InterPro: IPR003598; Iq_C2.		
DR	InterPro: IPR003600; Iq_Like.		
DR	InterPro: IPR003006; Iq_MHC.		
DR	Pfam; PF00047; Iq; 3.		
DR	SMART; SM00409; IG; 3.		
DR	SMART; SM00408; IGC2; 3.		
DR	SMART; SM00410; IG_Like; 2.		
KW	Immunoglobulin domain.		
SC	SEQUENCE 442 AA; 48537 MW; 68183E3238735062 CRC64;		

Alignment Scores:		
Pred. No.:	5 21e-144	442
Score:	1738.00	Matches: 331
Percent Similarity:	99.11%	Conservative: 2
Best local Similarity:	98.51%	Mismatches: 3
Query Match:	96.34%	Indels: 0
DB:	4	Gaps: 0

QY	1	ATCCCAACAGGTGATGTGACACAATCTGTTTACTTAAAGCCGACAGATGATTGAAGCAAA	60
Db	39	ILEPPTHGTLGYSPPGLGINASLNPENHETHTYASPAITLITRAVITLEGILGTLGLN	58
QY	61	GTGGCAACCAATCACCTCCACAGGTCAATTAAGAGTAGACACACTGATGATCCAGTCTCTGAAC	120
Db	59	VALAIAHTRIIESERYSGINIVALASLNLYSERTASPSSEVALITLEGILNLENAISN	78
QY	121	CCCAACAGGCGACACATTTTACTTCACAGGAGCTTCAGGCTTTGAAGGACACAGCTTTTCAG	180
Db	79	PROASNAITGINTHTRIETETYPHETARYSPHENETRGPROLEULYSASPSERTARYPHGELN	98
QY	181	CTGCTGTAATTTTTCTAGACAGTGAACCTCAAGGTGTCACTGCAAGAAATGTCATCATCTCGAT	240

Dd	99	LeuLeuAsnPrpSerSerSerGluLeuLysValSerLeuThrAsnValSerIleSerAsp	118
QY	241	GAAGGAGAAATCTTCCTGGCACCTCTACACGGACCCCCACAGAGAAATTACACCACTATC	300
Dd	119	GlUGLylArgTyrPrpGlySerGlnLeuTyrThrIAsnProProGlnGlnSerTyrThrThrIle	138
QY	301	ACAGTCCTGGTTCTCTCCACGTAACCTTGATGATATACGAAAGACACGCAATTGAA	360
Dd	139	ThrValLeuValProProArgAsnLeuMetIleAspIleGlnAspThrIleValAlGln	158
QY	361	GGGGAGAGATTGAAGTAACTGACTACTCGCCATGGCCAGCAAGCCAGGAGACCACTCAGG	420
Dd	159	GlyGluGlnIleGluValAsnCysThrAlaMetAlaSerLysProAlaThrThrIleArg	178
QY	421	TGGTTCAAAGGGAACCAAGCACTCAAAAGCCAAATCACAGGGGGAGAGTGTGTGGCAATG	480
Dd	179	TrpPrpLysGlyAsnThrGlnLeuLysGlyLysSerGlnValGlnGlnTrpSerAspMet	198
QY	481	TACACTGTGACCACTGACCTGATGCTGAAGGTGCACAAAGAGAGACGAGGGGTCCGGTG	540
Dd	199	TyrThrValThrSerGlnLeuMetLeuLysValHisLysGlnAspAspGlyAlaProVal	218
QY	541	ATCTCCCAAGGTGGAGACACCTCGCGGTCACTGGAACTGCAGACCCAGCCTATCTAGA	600
Dd	219	IleCysGlnValAlGlnHisProAlaValThrGlyAsnLeuGlnThrGlnArgTyrLeuGln	238
QY	601	GTGCGATTAACCCGCAAGTGCATATCCAGTGCATTAACCTCTGGCAAGGCTCAACCGGG	660
Dd	239	ValGlnTyrLysProGlnValHisIleGlnMetThrTyrProLeuGlnGlnLeuThrArg	258
QY	661	GAAGGGATGCATTTGAGTTAACTGTGAAGCCATCGGAGAGCCCAAGCCTGTGATGCTA	720
Dd	259	GluGlyAspAlaLeuGlnLeuThrCysGlnAlaIleLeuLysProGlnProValMetVal	278
QY	721	ACTTGGGTGACAGTCGATGATGAATGCCCTCAACATGCGCTACTGTGTGGCCAAACCTG	780
Dd	279	ThrTrpValAlaValAspAspGlnMetProGlnHisAlaValLeuSerGlyProAsnLeu	298
QY	781	TTTCATCATTAACCTTAACCAAAACGATTAAGGGTAATCCGGGTGAGGGTTCACAAATA	840
Dd	299	PhelIleAsnAsnLeuAsnLysThrAspAsnGlyThrTyrArgCysGlnAlaSerAsnIle	318
QY	841	GTGGGAAGGCTCATCTGGGACTATATCTCTATGATATACATGCCCCCAACTATACCT	900
Dd	319	ValGlyLysAlaHisSerAspTyrMetLeuTyrValTyrAsnProProThrThrIlePro	338
QY	901	CTCTCCACACACACCACCACCACTACACACACACACACACACACATCCTTACCATCATC	960
Dd	339	ProProThrThrThrThrThrThrThrThrThrThrThrThrThrIleLeuThrIleIle	358
QY	961	ACAGTTCTCGAGCAGGTGAAGGGGACCATTTGGGGCACTGGACACAC	1008
Dd	359	ThrAspSerArgAlaGlyGlnGluGlySerIleValThrAlaArgAlaValAspHis	374

RESULT	5
09D5E7	
ID	09D6E7
AC	09D6E7;
DT	01-JUN-2001 (TrEMBLrel. 17, Created)
DT	01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT	01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE	2900073G06Rik protein.
GN	IGSF4 OR 2900073G06Rik.
OS	Mus musculus (Mouse).
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
CX	NCBI_TaxID=10090;
RN	[1]
RP	SEQUENCE FROM N.A.
RC	STRAIN=C57BL/6J; TISSUE=HIPPOCAMPUS;
RA	MEDLINE=21085660; PubMed=11217851;
RA	Kawal J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,

RA Arakawa T., Hara A., Fukunishi Y., Kono H., Aadachi J., Fukuda S.,
RA Saito K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamazaki I.,
RA Salvo T., Okazaki Y., Gotohori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Glass C., Kling B., Kochiya H.,
RA Knehl P., Lewis S., Matsuo Y., Nikido I., Pesole G., Quackenbush J.,
RA Schirral L.M., Staudli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Balarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamuya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Saito K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weltz C., Whitaker C., Wilmink L.,
RA Wyszynski-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kontsuki S.,
RA Hayashizaki Y.,
RT "Functional annotation of a full-length mouse cDNA collection";
RT Nature 409:685-690(2001).
RL EMBL: AK013775. BAB2898.L; -.
DR EMBL: AK013775. BAB2898.L; -.
DR MGD: MGI:18869272. Ig5f4.
DR InterPro: IPR003599; Ig.
DR InterPro: IPR003598; Ig_c2.
DR InterPro: IPR003600; Ig_like.
DR InterPro: IPR003006; Ig_MHC.
DR Pfam: PF00047; Ig; 3.
DR SMART: SM00409; Ig; 3.
DR SMART: SM00408; IGC2; 3.
DR SMART: SM00410; IGC1-like; 1.
DR Immunoglobulin domain.
SEQUENCE 336 AA; 37157 MW; FF887FAF4EFD120 CRC64;
SEQUENCE

Alignment Scores:	
Pred. No.:	9,64e-127
Score:	1541.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	85.42%
DB:	11
Gaps:	0
Matches:	2
Mismatches:	0
Indels:	0

US-09-778-187B-3_COPY_62.1069 (1-1008) x Q9D6E7 (1-336)

Oy	1	ATCCCCACAGGTGATGGACAGCAATCTCTTTACTAAAGACCTGACACTGATTGGAAGAGAA	60
Db	42	ILleProthrrGLyAspGLyGlnAsnLeuPheThrLysAspValThrValILleGluGlyGlu	61
Oy	61	GTGGCAACCAATCACTCTCCAGCTCAATAAAGTAGAGACACTGATCTCCAGCTCCGAAC	120
Db	62	ValAlaThrILleSerCysGlnValAsnLysSerAspAspSerValILleGlnLeuLeuAsn	81
Oy	121	CCCAACAGCCAGCAACATTACTTCAGGAGCTTCAGGCCCTTTGAAGACAGCAGGTTTCAG	180
Db	82	ProAsnArgGlnThrILleTyrPheArgAspPheArgProLeuLysAspSerArgPheGln	101
Oy	181	CTGTGCAATTTTTCTAGCAGTGAACCTCAAGTGTCACTGACGAATCTGCATCTCGGAT	240
Db	102	LeuLeuAsnPheSerSerSerGlnLeuLysValSerLeuThrAsnValSerILleSerAsp	121
Oy	241	GAAGGAGATATCTTCTCCAGCCTCTACAGCGAGCCCCACAGAGAGATTACACACCAATC	300
Db	122	GlnGLyArgTyrPheCysGlnLeuTyrThrAspProProGlnLysertyrThrThrIle	141
Oy	301	ACACTCCGCTTCTCCACGTAACCTTGATGATGCATATCCAGAAACACGCGAGCTGAA	360
Db	142	ThrValLeuValProProAlaGlnLeuMetILleSpILleGlnLysAspThrAlaValGlu	161
Oy	361	GGGAGGAGATTGAAGTCAACTGTACTAGCCATGCGCCAGCAAGCCACAGCAGCAATCAG	420
Db	162	GlyGlnGluILleGluValaLysCysThrAlaMetAlaSerLysProAlaThrThrILeArg	181
Oy	421	TGGTTCAAGGGAACAGGAATCTAAAGCAAAATCACAGGTGGAGAGTGTGCGCATG	480
Db	182	TrpPheLysGLyAsnLysGlnLeuLysGLyLysSerGlnValGlnLysThrPheSerAspMet	201

QY	481	TACACTGTGACCACTACAGTATCTGAAGTGCACAAAGAGACACAGGGGTCCGGTG	540
Db	202	TGTTTtTtValtTtSerGtInLeuMeLeuLySaVhIhLySgIuAspAspGlyValProVal	221
QY	541	ATTCGCCAGGTGGAGACCCCTGGCGGTACTGTGGAAACCTGGCAGACCCAGCGCTATCTGAA	600
Db	222	IleCySgInValGIuInhSPrOAlaValThGtLySInLeuGtInThGtInAtgTtYrLeuGlu	241
QY	601	GTGCAGTATTAACCCGCAAGTGCATATCCAGATGACTTACCCCTGTGCAAGGCTTAACCCG	660
Db	242	ValGtInTtLySPrOGtInValhIhSILeGtInMeThrTtYrProLeuGtInGtYrLeuThArg	261
QY	661	GAAAGGGATGCATTTGACTTAACTGTGAACCCATCGGAAACCCCAAGCTGTGATGGTA	720
Db	262	GIuGtLyAspAlaThPheGtInLeuThCySgInuAlaIleGtLySPrOGtInProValMeTVal	281
QY	721	ACTGGGGAGACAGTCAGTGAATGGCTCAACATCCGAGCTGTGGGCCAAACCTG	780
Db	282	ThrtTtPValAlaGValAspAspGtMeCPtOGtInhIhSaValhLeuSerGtYrProAsnLeu	301
QY	781	TTTCATCATTAACCTTAACCAAAACAGATTAACGGTACTTAACGGCTGTGAGCTTCCACATA	840
Db	302	PheIleAsnAsnLeuAsnLyThAspAsnGtYhThTtYrAlaGtCySgInuAlaSerAsnIle	321
QY	841	GTGGGAAAGGCTCATTCGGCATATATGCTGTATGTATAC	879
Db	322	ValGIuLySAlaInhISerAspTtYrMeLeuLyTValYr	334

RESULT 6

ID	Q922H8	PRELIMINARY;	PRT;	295 AA
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DT 01-MAY-1999 (TREMBLrel. 10, Created)
DT 01-MAY-1999 (TREMBLrel. 10, last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, last annotation update)
DE Nectin-like protein 2.
GN IGSP4 OR NECT2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
OX NCBI_TaxID=10090.

RN [1]
RP SEQUENCE FROM N. A.
RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.
RT "Cloning of a novel cDNA encoding a member of
RL submitted (APR-1998) to the EMBL/GenBank/DBJ databases.

DR EMBL AF061260 AAC67243.1. -.
DR MGD MGI:1089772: Igsf4.
DR InterPro: IPR003598; I-C2.
DR InterPro: IPR003600; Iq_1like.
DR InterPro: IPR003006; Iq_MHC.
DR InterPro: IPR003585; Neurexin1-like.
DR Pfam: PF000447: Iq_2.
DR SMART: SM00294: 4.Im. 1.
DR SMART: SM00408: IGC2. 1.
DR SMART: SM00410: Iq_1like. 1.
DR Immunoglobulin domain.
SO SEQUENCE 295 AA: 32509 MW: 90E9D86FF6FF6F488 CRC64

Alignment Scores:	
Pred. No.:	3.57e-97
Score:	1204.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	66.74%
DB:	11
Length:	295
Matches:	227
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

US-09-778-187B-3_COPY_62_1069 (1-1008) x Q922H8 (1-295)

QY 328 ATGATCGATATCCAGAAAGACACACGGCAGTTGAAGGGAGAGATTTGAAGTCAACTGTACT 387
|||||
Db 1 MetIleAspIleGlnLysAspPheAlaValAlaGluGluGluIleGluValAlaAsnCysThr 20

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QY 388 GCCATGGCCAGCAAGCCAGGACACCATCAGGTGGTTCAAGGGAACAAGAACTCAA 447
    |||||||
Db 21 AlamelalaserlysproalaThrThrIleArgTPrpPheylsglysnlysgluLeuLys 40
QY 448 GGCAAATCAGAGGTGGAGAGTGTGGACATGTACACTGTGACCGAGTCAAGTGTCTG 507
    |||||||
Db 41 GlyLysSerGluValGluGlnTrpSerAspMetTyrThrValThrSerGlnLeuMetLeu 60
QY 508 AAGGTGCACAAGAGGAGCAGCGGGGTCCGGTATCGTCAGGTGGAGGACCCCTGGCGTC 567
    |||||||
Db 61 LysValHisLysGlnspsrglyValProValIleCysGlnValGlnHisProAlaVal 80
QY 568 ACTGGAACCTGCAGACCCAGCGCTATCTAGAAGTGCAGTATTAACCGCAAGTGCATATC 627
    |||||||
Db 81 ThrGlyAsnLeuGlnThrGlnArgTyrLeuGlnValGlnTyrLysProGlnValHisIle 100
QY 628 CAGATGACTTACCCCTGCAAGGCTTAACCCGGGAAGGGGATCATTTGAGTTAACTGTG 667
    |||||||
Db 101 GlnMetThrTyrProLeuGlnGlnGlyLeuThrArgGluGlyAspAlaPheGlnLeuThrCys 120
QY 688 GAAGCCATGCGAAGCCAGCCAGCTGTGATGTGTAACCTTGGGTGAGTGCATGTAAGT 747
    |||||||
Db 121 GluAlaIleGlyLysProGlnProValMetValThrTyrValArgValAspAspGlnMet 140
QY 748 CCTCAACATGCGCTACTGTCTGGGCCAAACCTGTTCAATCAATTAACCTAAACAAACAGAT 807
    |||||||
Db 141 ProGlnHisAlaValLeuSerGlyProAsnLeuPheIleAsnAsnLeuAsnLysThrAsp 160
QY 808 AAGCGTACTTACCGCTGTGAGGCTTCCCAACATGTAAGGGAAGGCTCATTCGACCTATG 867
    |||||||
Db 161 AsnGlyThrTyrArgCysGlnAspSerAsnIleValGlyLysAlaHisSerAspTyrMet 180
QY 868 CTGTATGTATAGATCCCGCCCAACTATACCTCTCCCAACAACACACACACACTATAC 927
    |||||||
Db 181 LeuTyrValTyrAspProProThrThrIleProProThrThrThrThrThrThrThr 200
QY 928 ACCACCACACACACACATCCTTACCATCATCAGATTCCTGCAGAGTGAAGAGGG 987
    |||||||
Db 201 ThrThrThrThrThrThrThrThrThrThrIleIleThrAspSerArgIleGlnGlnGly 220
QY 988 ACCATGGGGGAGTGGACAC 1008
    |||||||
Db 221 ThrIleGlyAlaValAspHis 227

RESULT 7
O90YL4 PRELIMINARY: PRT: 306 AA.
AC O90YL4:
DT 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Adhesion protein RAI175C.
GN IGSF4 OR RAI175C.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Soyama A., Fujita E., Urabe K., Mukasa T., Kouroku Y., Momoi M.,
RA Momoi T.;
RT "RAI75, a novel neuron specific adhesion protein.";
RL Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB021966; BAA67916.1; -.
DR MGD; MGI:1889272; IGSF4.
DR InterPro; IPR003598; I9_c2.
DR InterPro; IPR003600; I9_c2.
DR InterPro; IPR003006; I9_MHC.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; i9; 2.
DR SMART; SM00294; 4.Im; 1.
DR SMART; SM00408; Igc2; 1.

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DR SMART; SM00410; IG_1like; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 306 AA; 33522 MW; AACB37B0F2354D5 CRC64;

Alignment Scores:
Pred. No.: 2,56e-94 Length: 306
Score: 1171.50 Matches: 224
Percent Similarity: 94.54% Conservative: 1
Best Local Similarity: 94.12% Mismatches: 2
Query Match: 64.94% Indels: 11
Db: 11 Gaps: 1

US-09-778-187b-3_copy_62_1069 (1-1008) x O90YL4 (1-306)
QY 328 ATGATGATATCCAGAAAGACAGCGAGTTGAAGGGGAGAGATTGAATCACTACT 387
    |||||||
Db 1 MetIleAspIleGlnLysAspThrAlaValGlnGlyGlnGlnIleGlnValAsnGlyThr 20
QY 388 GCCATGGCCAGCAAGCCAGCAGCAGCATCAGGTGGTTCAAGGGAACAAGAACTCAA 447
    |||||||
Db 21 AlamelalaserlysproalaThrThrIleArgTPrpPheylsglysnlysgluLeuLys 40
QY 448 GGCAAATCAGAGGTGGAGAGTGTGGACATGTACACTGTGACCGAGTCAAGTGTCTG 507
    |||||||
Db 41 GlyLysSerGluValGluGlnTrpSerAspMetTyrThrValThrSerGlnLeuMetLeu 60
QY 508 AAGGTGCACAAGAGGAGCAGCGGGTCCGGTATCGTCAGGTGGAGCAGCCCTGGCGTC 567
    |||||||
Db 61 LysValHisLysGlnspsrglyValProValIleCysGlnValGlnHisProAlaVal 80
QY 568 ACTGGAACCTGCAGACCCAGCGCTATCTAGAAGTGCAGTATTAACCGCAAGTGCATATC 627
    |||||||
Db 81 ThrGlyAsnLeuGlnThrGlnArgTyrLeuGlnValGlnTyrLysProGlnValHisIle 100
QY 628 CAGATGACTTACCCCTGCAAGGCTTAACCCGGGAAGGGGATCATTTGAGTTAACTGTG 667
    |||||||
Db 101 GlnMetThrTyrProLeuGlnGlnGlyLeuThrArgGluGlyAspAlaLeuGlnLeuThrCys 120
QY 688 GAAGCCATGCGAAGCCAGCCAGCTGTGATGTGTAACCTTGGGTGAGTGCATGTAAGT 747
    |||||||
Db 121 GluAlaIleGlyLysProGlnProValMetValThrTyrValArgValAspAspGlnMet 140
QY 748 CCTCAACATGCGCTACTGTCTGGGCCAAACCTGTTCAATCAATTAACCTAAACAAACAGAT 807
    |||||||
Db 141 ProGlnHisAlaValLeuSerGlyProAsnLeuPheIleAsnAsnLeuAsnLysThrAsp 160
QY 808 AAGCGTACTTACCGCTGTGAGGCTTCCCAACATGTAAGGGAAGGCTCATTCGACCTATG 867
    |||||||
Db 161 AsnGlyThrTyrProCysGlnAspSerAsnIleValGlyLysAlaHisSerAspTyrIle 180
QY 868 CTGTATGTATAGATCCCGCCCAACTATACCTCTCCCAACAACACACACACTATAC 927
    |||||||
Db 181 LeuTyrValTyrAspProProThrThrIleProProThrThrThrThrThrThrThr 200
QY 928 ACCACCACACACACACATCCTTACCATCATCAGATTCCTGCAGAGTGAAGAGGG 987
    |||||||
Db 201 ThrThrThrThrThrThrThrThrThrThrIleIleThrAspThrThrAlaThrThrGlnPro 220
QY 964 -----GATTCGACAGCAGGTGAAGAGGGAGCATTGGGCGAGTGGACAC 1008
    |||||||
Db 221 AlaValHisAspSerArgAlaGlyGlnGlnGlyThrIleGlyAlaValAspHis 238

RESULT 8
O90YL6 PRELIMINARY: PRT: 295 AA.
AC O90YL6:
DT 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Adhesion protein RAI175A.
GN IGSF4 OR RAI175A.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

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OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Soyama A., Fujita E., Urabe K., Mukasa T., Kouroku Y., Momoi M.,
 RA Momoi T.;
 RT "RA175, a novel neuron specific adhesion protein."
 RL Submitted (Dec-1998) to the EMBL/Genbank/DBJ databases.
 DR EMBL; AB021964; BAA87914.1; -;
 DR MGD; MGI:1889272; 19sf4.
 DR InterPro; IPR003598; IG_c2.
 DR InterPro; IPR003600; IG_1like.
 DR InterPro; IPR003006; IG_MHC.
 DR InterPro; IPR003585; Neurexin-1like.
 DR Pfam; PF00047; 19; 2.
 DR SMART; SM00294; 4.Im; 1.
 DR SMART; SM00408; IGc2; 1.
 DR SMART; SM00410; IG_1like; 1.
 KW Immunoglobulin domain.
 SQ SEQUENCE 295 AA: 32347 MW: FDD9E8145C68971B CRC64:

Alignment Scores:
 Pred. No.: 1.6e-92 Length: 295
 Score: 1151.00 Matches: 217
 Percent Similarity: 96.48% Conservative: 2
 Best Local Similarity: 95.58% Mismatches: 8
 Query Match: 63.80% Indels: 0
 DB: 11 Gaps: 0

US-09-778-187b-3_COPY_62_1069 (1-1008) x 09QYL6 (1-295)

OY 328 ATGATCGATATCCAGAAACACACGCGAGTTGAAGGGAGAGATTGAAGTCAACTGACT 387
 DB 1 MettIleAspIleGlnLysAspThrAlaValGluGluGluIleGluValAlaIleGlnLys 20
 OY 388 GCCATGGCCAGCAGCAGCAGCAGCAGCAGCAGTGTGTTCAAGGGAGAAAGCAAGCAATCA 447
 DB 21 AlameTAlaSerLysProAlaThrThrIleArgTTPheLysGlnValAsnLysGluLeuLys 40
 OY 448 GCCAAATCAGAGGTGAGAGAGTGTGCGACATGTACACTGTGACACAGTCAGTGTGCTG 507
 DB 41 GlyLysSerGlnValGluGluLysPheSerAspMetLysThrValThrSerGlnLeuMetLeu 60
 OY 508 AAGGTGCACAAAG 567
 DB 61 LysValIleLysGlnAspAspGlyValProValIleCysGlnValGluIleAspProAlaVal 80
 OY 568 ACTGGAACCTCAGACCGCGCTATCAGAAAGTGCATATAACCGCAAGGCATATC 627
 DB 81 ThrGlyAsnLeuGlnThrGlnArgTyrLeuGluValGlnTyrLysProGlnValIleHisLe 100
 OY 628 CAGATGACTTACCTCTGCAAGGCTTAACCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 687
 DB 101 GlnMetThrTyrProLeuGlnGlyLeuThrArgGluGlyAspAlaLeuGluLeuThrCys 120
 OY 688 GAAGCATCGGAG 747
 DB 121 GlnAlaIleGlyLysProGlnProValMetValThrTyrValArgValAspAspGluMet 140
 OY 748 CCTCAACATGCGGTACTGTGGGCCAAACGTTTCATCAATAAAGCTTAACAACAGAGT 807
 DB 141 ProGlnHisAlaValLeuSerGlyProAsnLeuPheIleAsnAsnLeuAsnLysThrAsp 160
 OY 808 AACGGTACTTACCGCTGAGGCTTCAACATAGTGGAAAGGCTCATTCGAGACTATAG 867
 DB 161 AsnGlyThrTyrProCysGlnAlaSerAsnIleValGlyLysAlaIleHisSerAspTyrIle 180
 OY 868 CTGTATGTATACGATGCCCAACAACTATCCTCTCCACAAACACACACACACTACC 927
 DB 181 LeuTyrValTyrAspProThrThrIleProProThrThrThrThrThrThrThrThrThr 200
 OY 928 ACCACACACACACACACCTCTTACCATCATCACAGATTCGAGCAGAGTGAAGGGGG 987
 ||||||||||| ||| :||| ||||||||||| |||||||||||

DB 201 ThrThrThrThrAlaThrThrGluProAlaValHisAspSerArgAlaGlyGluGly 220
 OY 988 ACCATTGGGGCAGTGGACCAC 1008
 DB 221 ThrIleGlyAlaValAlaAspHis 227

RESULT 9

ID 09QYL5 PRELIMINARY: PRT: 289 AA.
 AC 09QYL5;
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
 DE Adhesion protein RA175B.
 GN IGsf4 OR RA175B.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Soyama A., Fujita E., Urabe K., Mukasa T., Kouroku Y., Momoi M.,
 RA Momoi T.;
 RT "RA175, a novel neuron specific adhesion protein."
 RL Submitted (Dec-1998) to the EMBL/Genbank/DBJ databases.
 DR EMBL; AB021965; BAA87915.1; -;
 DR MGD; MGI:1889272; 19sf4.
 DR InterPro; IPR003598; IG_c2.
 DR InterPro; IPR003600; IG_1like.
 DR InterPro; IPR003006; IG_MHC.
 DR InterPro; IPR003585; Neurexin-1like.
 DR Pfam; PF00047; 19; 2.
 DR SMART; SM00294; 4.Im; 1.
 DR SMART; SM00408; IGc2; 1.
 DR SMART; SM00410; IG_1like; 1.
 KW Immunoglobulin domain.
 SQ SEQUENCE 289 AA: 31811 MW: 8D1B836D0565AEM4 CRC64:

Alignment Scores:
 Pred. No.: 1.04e-84 Length: 289
 Score: 1062.00 Matches: 205
 Percent Similarity: 91.19% Conservative: 2
 Best Local Similarity: 90.31% Mismatches: 14
 Query Match: 58.87% Indels: 6
 DB: 11 Gaps: 1

US-09-778-187b-3_COPY_62_1069 (1-1008) x 09QYL5 (1-289)

OY 328 ATGATCGATATCCAGAAACACACGCGAGTTGAAGGGAGAGATTGAAGTCAACTGACT 387
 DB 1 MettIleAspIleGlnLysAspThrAlaValGluGluGluIleGluValAlaIleGlnLys 20
 OY 388 GCCATGGCCAGCAGCAGCAGCAGCAGCAGTGTGTTCAAGGGAGAAAGCAAGCAATCA 447
 DB 21 AlameTAlaSerLysProAlaThrThrIleArgTTPheLysGlnValAsnLysGluLeuLys 40
 OY 448 GCCAAATCAGAGGTGAGAGAGTGTGCGACATGTACACTGTGACACAGTCAGTGTGCTG 507
 DB 41 GlyLysSerGlnValGluGluLysPheSerAspMetLysThrValThrSerGlnLeuMetLeu 60
 OY 508 AAGGTGCACAAAG 567
 DB 61 LysValIleLysGlnAspAspGlyValProValIleCysGlnValGluIleAspProAlaVal 80
 OY 568 ACTGGAACCTCAGACCGCGCTATCAGAAAGTGCATATAACCGCAAGGCATATC 627
 DB 81 ThrGlyAsnLeuGlnThrGlnArgTyrLeuGluValGlnTyrLysProGlnValIleHisLe 100
 OY 628 CAGATGACTTACCTCTGCAAGGCTTAACCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 687
 DB 101 GlnMetThrTyrProLeuGlnGlyLeuThrArgGluGlyAspAlaLeuGluLeuThrCys 120
 OY 688 GAAGCATCGGAG 747
 ||||||||||| ||| :||| ||||||||||| |||||||||||

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Db 121 Glial1le1LysProGlnProValMetValThrTrpValArgValAspGluMet 140
QY 748 CCTCAACATCCGCTACTGTCGTGGGCCAACCTGTCATCAATCAACCAAAACAGAT 807
Db 141 ProGlnHisAlaValLeuSerGlyProAsnLeuPheIleAsnAsnLysThrAsp 160
QY 808 AACGGTACTTACCGCTGTGAGGCTTCCACATAGTGGAAGGCTCATTCGACTATATG 867
Db 161 AsnGlyThrTyProCysGluAlaSerAsnIleValGlyLysAlaHisSerAspTyrIle 180
QY 868 CTGTATGTATACGATCCGCCCAACATATCCCTCCTCCCAACACACCACCACCTACC 927
Db 181 LeuTyValTyAspThrThrThrIle-----LeuThrIleIle 194
QY 928 ACCACACACACACACATCTTACCATCATCAGATTCTCGACAGGTGAAGAGGG 987
Db 195 ThrAspThrThrAlaThrThrGluProAlaValHisAspSerArgAlaGlyGluGly 214
QY 988 ACCATTGGGGGAGTGAGCCAC 1008
Db 215 ThrIleGlyAlaValAspHis 221

```

RESULT 10

```

ID 090YL3 PRELIMINARY; PRT; 278 AA.
AC 090YL3:
DT 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Adhesion protein RAI15N.
GN IGSF4 OR RAI15N.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Soyama A., Fujita E., Urabe K., Mukasa T., Kouroku Y., Momoi M.,
RA Momoi T.;
RT Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB021967; BAA87917.1; -.
DR MGD; MGI:1889272; IgSF4.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR003585; Neutxin-Like.
DR Pfam; PF00047; Ig_2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IgC2; 1.
DR SMART; SM00410; IG_Like; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 278 AA; 30636 MW; A295F4DEA2724B04 CRC64;

```

Alignment Scores:

```

Pred. No.: 1.19e-82 Length: 278
Score: 1038.50 Matches: 200
Percent Similarity: 88.99% Conservative: 2
Best Local Similarity: 88.11% Mismatches: 8
Query Match: 57.57% Indels: 17
DB: 11 Gaps: 1

```

US-09-778-187b-3_copy_62_1069 (1-1008) x 090YL3 (1-278)

```

QY 328 ATGATGATATCCAGAAACACGCGAGTTGAAGGAGAGAGATTGAAGTCACTACT 387
Db 1 MetIleAspIleGlnLysAspThrAlaValIleGluGlyGluGluIleGluValAsnCysThr 20
QY 388 GCCATGGCAGCAGCAGCAGCAGCAGCAGTGTGTTCAAGGGAACAGCAAGTCAAA 447
Db 21 AlaMetAlaSerLysProAlaThrThrIleArgTyrPheLysGlyAsnLysGluLeuLys 40

```

```

QY 448 GGCAAATCAGAGGTGGAGAGGTGGGACATGTACATGTGACAGTCACTGATGCTG 507
Db 41 GlyLysSerGlnValIleGluGluTyrPserAspMetTyrThrValThrSerGlnLeuMetLeu 60
QY 508 AAGGTGCACAGAGAGACAGCAGGGGTCCTCGGTATCTGCCAGGTGGAGACCTCGGGTC 567
Db 61 LysValHisLysGlnAspAspGlyValProValIleLysGlnValIleHisProAlaVal 80
QY 568 ACTGAAACCTGCAGACCCAGCGCTATCTAGAGTGCAGATATTAACCGCAAGTCATATC 627
Db 81 ThrGlyAsnLeuGlnThrGlnArgTyrLeuGlnValGlnTyrLysProGlnValHisIle 100
QY 628 CAGATGACTTACCTCTGTGACAGGCTTAACCGGGAAGGAGTCAATTGATTAAGTGT 687
Db 101 GlnMetThrTyProLeuGlnGlyLeuThrArgGlyGlyAspAlaLeuGlnLeuThrCys 120
QY 688 GAAGCCATCGGGAAGCCCGCCGCTGTGATGTACTTGGGTGAGATCCGATGTGAATG 747
Db 121 Glial1le1LysProGlnProValMetValThrTrpValArgValAspAspGluMet 140
QY 748 CCTCAACATCCGCTACTGTCGTGGGCCAACCTGTCATCAATCAATCAACAAACAGAT 807
Db 141 ProGlnHisAlaValLeuSerGlyProAsnLeuPheIleAsnAsnLysThrAsp 160
QY 808 AACGGTACTTACCGCTGTGAGGCTTCCACATAGTGGAAGGCTCATTCGACTATATG 867
Db 161 AsnGlyThrTyProCysGluAlaSerAsnIleValGlyLysAlaHisSerAspTyrIle 180
QY 868 CTGTATGTATACGATCCGCCCAACATATCCCTCCTCCCAACACACCACCACCTACC 927
Db 181 LeuTyValTyAsp----- 185
QY 928 ACCACACACACACACATCTTACCATCATCAGATTCTCGACAGGTGAAGAGGG 987
Db 186 -----ThrThrAlaThrThrGluProAlaValHisAspSerArgAlaGlyGluGly 203
QY 988 ACCATTGGGGGAGTGAGCCAC 1008
Db 204 ThrIleGlyAlaValAspHis 210

```

RESULT 11

```

ID 08R464 PRELIMINARY; PRT; 388 AA.
AC 08R464:
DT 01-JUN-2002 (TREMBLrel. 21, Created)
DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Membrane glycoprotein.
GN TSL2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Fukami T., Maruyama T., Murakami Y.;
RT Identification of a murine ortholog of the TSLC1-like gene 2.;
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF059394; AAL29692.1; -.
SQ SEQUENCE 388 AA; 42723 MW; 8E3A9DF1C3B9D23E CRC64;

```

Alignment Scores:

```

Pred. No.: 3.08e-46 Length: 388
Score: 624.00 Matches: 123
Percent Similarity: 61.06% Conservative: 62
Best Local Similarity: 40.59% Mismatches: 112
Query Match: 34.59% Indels: 6
DB: 11 Gaps: 3

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US-09-778-187b-3_copy_62_1069 (1-1008) x 08R464 (1-388)

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QY 10 GGTGATGACAGCAATCTGTTACTAAAGACGTGACAGTGATTGAAGAGAGAGTGCACACC 69

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```
Db 22 GYTHhGlgIngluValgInthrgluAsnValThValAlaIgluIgluValAlaIglu 41
    ||| ||||| ::: ||||| ||||| ||||| ||||| |||||
Oy 70 ATCCAGCTCCAGGTCATTAAGACTGACGATCCAGTCCAGTCCGACCCCAACAG 129
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 42 lIethrCyArgluInthrgluInthrgluSerIleValIleValIleValIleValIleVal 61
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 130 CAGACCAATTTACTTCAGAGGACTTCAGGCGCTTGAAGACAGCAGGTTTCAGCTGTAAT 189
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 62 GlnThLeuPhePheAsnGlnThrArgAlaIleuLysAspIluArgPheGlnLeuGlu 81
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 190 TTTTCAGGAGTGAATCAAGAGTGCAGATGTCTCATCTCCGATTCGAGTGAAGGAGA 249
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 82 PheSerProArgAlaValAlaArgIleArgLeuSerAspAlaArgLeuLysArgIleGly 101
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 250 TACTTTCGACGCTTACAGGAGCCGCCACAGAGAGTTCACACCATCAGCTCTCT 309
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 102 TyPheCysGlnLeuYrThrgluAspThrIleHisGlnIleAlaThrLeuThrValLeu 121
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 310 GTTTCCTCCAGTAACTTGATGATGCATATCCAGAAACAGCAGGCTTGAAGGGAGAG 369
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 122 ValAlaProGluAsnProValValIgluVal---ArgGluGlnAlaValIgluIglu 140
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 370 ATTGAAGTCAAGCTGACTGCCATGGCCAGACAGCCAGACGATCCAGTCCAGTTCAAA 429
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 141 ValGluLeuSerCysLeuValProArgSerArgProAlaAlaValLeuArgTrpTyrArg 160
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 430 GCGAACAAGAGCAATCAAGGCAAAATCAGAGGTGAGAGTGTGGAGATGATGACTGTG 489
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 161 AspArgIleGluLeuLysGluValIleSerSerGluGlnGluAsnGluLysValTrpSerVal 180
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 490 ACCAGTCAAGCTGACTGCTGAAGCTGACAGACAGAGCAGGAGGCTCCCGTGAATCCAG 549
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 181 AlaSerThrValArgPheArgValAspArgLysAspAspGlyGlyIleValIleCysGlu 200
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 550 GTGGACACCGCTGGCTGCACTGGA-----AACCTGCAGACCCGAGGCTATTCAGAACTG 603
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 201 AlaGlnAsnGlnAlaLeuProSerGlnLysSerLysGlnThrgluInthrgluValLeuAspVal 220
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 604 CAGTATTAACCCGCAATGCAATATCCAGATGACTTACCCTCTCCAGAGCCCTTAACCCGGAA 663
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 221 GlnTySerProThrAlaArgIleHisAlaSer-----GlnAlaValAlaArgGlu 237
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 664 GGGAGTGCATTTGAGTTAACTGTGTGAAGCCAGCCAGAGCCCGACGCTGATGTAAGT 723
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 238 GlnAspThrLeuValLeuThrCysAlaValThrgluAsnProArgProGlnIleArg 257
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 724 TGGGTGAGATGATGATGAATGCTCAAGATGCCGCTACTGTGTGGCCAAACCTGTTC 783
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 258 TrpAsnArgGluAsnGlnSerLeuProGluAlaArgAlaGluAlaValIleGluThrLeuThr 277
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 784 ATCAATTAACCTTAACCAACAGATTAACGCTACTTACCGCTGTGAGGCTTCCCAATAGTG 843
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 278 LeuProGluLeuValSerIleAspAsnGlnTyThrThrCysGlnAlaAlaAsnLysHis 297
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 844 GGAAGGCTCATTTGAGCTATATGCTGTATGATACAGATCCGCCCAACTATCCCTCT 903
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 298 GlnHisAlaArgAlaLeuValIleValIleValIleValIleValIleValIleValIle 317
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 904 CCCACACA 912
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 318 GlnThrSer 320
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
RESULT 12
O9Y4A4
ID O9Y4A4 PRELIMINARY: PRT: 381 AA.
AC O9Y4A4:
DT 01-NOV-1999 (Tremblrel. 12, Created)
DT 01-JUN-1999 (Tremblrel. 12, Last sequence update)
DT 01-JUN-2002 (Tremblrel. 21, Last annotation update)
DE F22162_1 (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
```

```
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Lamerdin J.E., McCreedy P.M., Skowronski E., Adamson A.W.,
RA Burkhardt-Schultz K.J., Gordon L., Kyle A., Ramirez M., Stillwagen S.,
RA Phan H., Velasco N., Do L., Regala W., Terry A., Gaines J.,
RA Dangnan L., Poundstone P., Christensen M., Georgescu A., Avila J.,
RA Liu S., Altix C., Andreise T., Frankheim M., Amico-Keller G.,
RA Coefield J., Duarte S., Lucas S., Bruce R., Thomas P., Quan G.,
RA Krommiller B., Ariello A., Montgomey M., Ow D., Nolan M., Trong S.,
RA Kobayashi A., Olsen A.S., Carrano A.V.;
RT "Sequence analysis of a 2.5 Mb region in 19q13.2 containing a
RT clustered CE/PSG gene family."
RL Submitted (Aug-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC005525; AAC32740.1; -.
DR HSSP; P80748; ZLOT.
DR InterPro; IPR003598; Ig_C2.
DR InterPro; IPR003600; Ig_C2.
DR InterPro; IPR003606; Ig_MHC.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig_3.
DR SMART; SM00294; 4.Im; 1.
DR SMART; SM00408; IGC2; 1.
DR SMART; SM00410; IG-like; 2.
KW Immunoglobulin domain.
FT NON_TER
SQ SEQUENCE 381 AA; 41787 MW; 315420B36FBFDC05 CRC64;

Alignment Scores:
Pred. No.: 4,24e-45 Length: 381
Score: 611.00 Matches: 126
Percent Similarity: 58.39% Conserved: 62
Best Local Similarity: 39.13% Mismatches: 120
Query Match: 33.87% Indels: 14
DB: 4 Gaps: 5

US-09-778-187b-3_copy_62_1069 (1-1008) x O9Y4A4 (1-381)
Oy 16 GCAGACAATCTGTTTACTAAAGAGTGCAGATGATGAAGAGAGAGATGCAATCAGC 75
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2 GlnGlnGlnValGlnThrgluAsnValThValAlaIgluIgluValAlaIgluIleThr 21
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 76 TGGCAGTCAATTAAGAGTGCAGTCACTGATGATCCAGTCTCTGAACCCCAAGCAGACAC 135
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 22 CysArgLeuHisGlnThrgluAspIleValIleValIleValIleValIleValIleValIle 41
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 136 ATTTACTTCAAGGACTTCAGGCGCTTGAAGACAGCAGGTTTCAAGTCTGCAATTTTCT 195
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 42 LeuPhePheAsnGlnThrArgAlaLeuLysAspGluArgPheGlnLeuGluIlePheSer 61
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 196 AGCAGTGAACCTCAAGAGTGCAGCAATGTCTCAATCTCGGATGAAGGAGATGACTTC 255
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 62 ProArgArgValArgIleArgLeuSerAspAlaArgLeuLysArgIleGlyTyPhe 81
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 256 TGGCAGCTGTACAGGAGCCGCCACAGAGAGTTCACACCATCAGCTGTGTTCT 315
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 82 CysGlnLeuTyThrgluAspThrIleHisGlnIleAlaThrLeuThrValIleValAla 101
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 316 CCAGCTTAATGATGATGCATATCCAGAAAGACAGCGCACTTGAAGGGAGGAGATTGAA 375
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 102 ProGluAsnProValValIgluVal---ArgGluGlnAlaValIleGlyIgluValIglu 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 376 GTCAACTGTACTGCAATGGCCAGACGCCAGACGATCCAGTCAAGTGTGTTCAAGGAG 435
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 121 LeuSerCysLeuValProArgSerArgProAlaAlaThrLeuArgTrpTyrArgAspArg 140
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 436 AAGCAACTCAAGAGCAATTCAGAGTGGAGAGAGTGTGGACATGTACACTGTGCACAGT 495
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 141 LysGluLeuLysGluValSerSerSerGlnGluAsnGlyLysValIleTrpSerValAlaSer 160
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Oy 496 CAGCTGATCTGAAGTGCACAGAGAGAGCAGAGGAGGCTCCCGGTGATTCGACAGTGGAG 555
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

Db 161 ThrValAlagPheatgvalAslaPaRglYsaSPrsplYcylIlellellettleCysGluAInlaGn 18
Qy 556 CACCGTGGGGTGACTGGA-----AACCTGCAGACCAGCCGTATCTAGAAGTCAGTAT 609
 :::|::||::||::||::||::||::||::||::||::||::||
Db 191 AsnglnalaleProSerGIynHISserLysGlntHRgtIntfyraVallueasPaVlgltNy 200
Qy 610 AACCGCAAGTCATTCCATCATGATCACATTAACCCCTGCCAGGCCATAACCCGGAAGGGAT 669
 ||| |::| ::| ::| ::| ::| ::| ::| ::| ::|
Db 201 SerPrOthrPlalaNtGlleniIsalsesr-----GlnalavalAlarGLIGLIASP 217
Qy 670 GCATTGTGTTAACTGGTGAAGCCATPGSCGGAAAGCCCAGCCCTGTGATGTAACTGGGTG 729
 ||||||| ||| ||| ||| ||| ||| |||
Db 218 ThrlauvaIlLeuthnrCySaIalavAltHgLyasnPrOrArgrProsnglnItlarGrPasn 237
Qy 730 AGAGTCGATGTATGAANAHCCTCCACANTRCCGCTACTGTCTGGCCCCAAACCTGTATCATCAT 789
 ||| :::::::::::||| ||| ||| ||| ||| :::
Db 238 ArgelYsalEngUiserLeuProglARgalaglualAvailgytluthtreUTHreUPro 257
Qy 790 AACAATAACAACAAGATATACGGTAGCTTACCGCGCTGTAGCGCTTCCAACATATAGGGGAAG 849
 ||| ||||||||| ||||||||| |||
Db 258 GlyleuvaiSeraIalaspaSneglyThrtTYTrthrcysGlnuaIsersnlYshlsIgLYHis 277
Qy 850 GCTCATTCGGACATAATACGCTGTATATCAGANTCC-----CCCAACAAT--- 894
 ||| ::| ::|:::||| ||| ||| ||| ||| |||
Db 278 AlaArgalataLeutyraVeilveuvaIVaitygLyJaserArgeunARGprOthrhnglugly 297
Qy 895 -----ATCCCTCCTCCGACACACACACCACCCACCACTACCAACCAACACCACCACC 945
 ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 298 GlytygelYaIalaprosapProglYalavaIalgaIuaIgnlrHSerVaIProtYrala 317
Qy 946 ATCCCTT 951
 ||:::
Db 318 lIeval 319

RESULT 13

O99N28 PRELIMITARY; PRT; 396 AA.

AC O99N28;
DT 01-JUN-2001 (TREMBLErel. 17, Created)
DT 01-JUN-2001 (TREMBLErel. 17, Last sequence update)
DT 01-JUN-2002 (TREMBLErel. 21, Last annotation update)
DE Necln-like protein I (Membrane glycoprotein).
GN NECL1 OR TSL1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;

RN [1]
RP SEQUENCE FROM N.A.
RA Zhou Y., Huang X., Yuan J., Qiang B.;
RT "Cloning and expression analysis of novel mouse cDNA encoding a
RL membrane protein." ;
RN Submitted (Oct-1999) to the EMBL/GenBank/DDB databases.

RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=129/SVJ;
RA Fukami T., Maruyama T., Murakami Y.;
RT "Identification of a murine ortholog of the TSIL1-like gene 1.",
RL submitted (oct-2001) to the EMBL/Genbank/DDB databases.

DR EMBL; AF195862; AAC35584.1; -;
DR EMBL; AY059593; AL29691.1; -;
DR MGd; MG1:2137858; Nec11.
DR Interpro: IPRO03599; Ig.
DR Interpro: IPRO03598; Ig_c2.
DR Interpro: IPRO03600; Ig_like.
DR Interpro: IPRO03006; Ig_MMC.
DR Pfam; PF00047; Ig_3.
DR SMART; SMO0409; IGc_3.
DR SMART; SMO0408; IGc2_3.
DR SMART; SMO0410; IG_Like; 2.
KW Immunoglobulin domain.

KW SEQUENCE *396 AA; 42964 MW; CIADF8B57D141F3A CRC64;

[illegible]

RESULT 14	909UP1	PRELIMINARY:	PRT:	432 AA.
ID	Q9UJPL			
AC	Q9UJPL;			
DT	01-MAY-2000 (TrEMBLrel. 13, Created)			
DT	01-MAY-2000 (TrEMBLrel. 13, Last sequence update)			
DT	01-JUN-2002 (TrEMBLrel. 21, Last annotation update)			
DE	BK134P22.1 (Novel protein similar to mouse IMMUNOSUPPRESSOR protein 1).			
DE	BL2) (NECTIN-like protein 1).			
GN	BK134P22.1 OR NECL1.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.			
OX	NCBI_TaxID=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RA	Beggaley C.;			
RL	Submitted (AUG-1999) to the EMBL/GenBank/DBJ databases.			
RL	[2]			
RP	SEQUENCE FROM N.A.			
RA	Zhou Y., Du G., Yuan J., Qiang B.;			
RL	Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.			
EMBL	AL035403; CAB56227.1; -			
DR	EMBL; AF062733; AAD17540.2; -			
DR	InterPro: IPR003598; Ig_c2.			
DR	InterPro: IPR003600; Ig_like.			
DR	InterPro: IPR003006; Ig_MHC.			
DR	InterPro: IPR003585; Neurexin-like.			
DR	Pfam: PF00047; Ig_3.			
DR	SMART; SM00294; 4.1m; 1.			
DR	SMART; SM00408; IGC2; 1.			
DR	SMART; SM00410; IG_like; 2.			
KW	Immunoglobulin domain.			
QC	SEQUENCE 432 AA: 47020 MW; AC47BEFCC4C518C CRC64;			

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Query Match:	25.91%	Indels:	11
DB:	4	Gaps:	6
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QY	28 TTTACTAAGACGTGACAGATGATTGAAGAGAAAGTGGCAACATATCCAGCTGCGACGTCAT	87	
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QY	88 AAGAGTACACATCAGTGATCCAGCTCGTCAACCCCAAGCGACCAATTTACTTAGG	147	
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QY	148 GACTTCAGCCGCTTGAAGGACAGCAGCTTCAGCTGCGATTTTCTAGCAGAGCATC	207	
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QY	208 AAGATGCTACGACGAATGTCTCATCTCGGATGAAAGGAGATCTTCTGCGACCTTAC	267	
Db	128 Serleserleleserrasnvalalaleuadlserplnglsglytrthrvcserrlelphe	147	
QY	268 ACGGACCCCCCAGAGAGAGTACCAACCAACATCAACATCTCGTGGTCTCCACGTAATTG	327	
Db	148 Thrmetprovalaagtrhralalyserleuvalthrvaleuclyleproglhyspro	167	
QY	328 ATGATTCGATATCCAGAAAGACAGCGAGTTGTAAGGGGAGGAGATTGAAGTCACTTAAT	387	
Db	168 lletlethrvgluytrlyssetserleuadrglulysasrthrvlathrvleuasnrcysglh	187	
QY	388 CGCATGGCCACAGACCGACGACCAATCATCGGTGTTCAAGGGAAAGAAATCTAA	447	
Db	188 Sergerclgyserrprovalaletrleuclhtrprrprrglulysasrghnglnleuyls	207	

OY	448	GGCAAAA---TCAGAGGAGGAGGAGAGTGGCTCGCAG-----ATGACACTCTGTGACACAGTGA	498
Db	208	GlycUpProthlrArngIleGIngluAspProasnGlylyshThrPhehrhValSerSer	227
OY	499	CTGATGCTGAAGGTGCACACAGAGAGCAGCAGGGGGTCCCGGTGATCTGTCCAGGTGAGAC	558
Db	228	ValThrPhehInuValThrArngluAspAspGlyAlaSerIleValCysSerValAsnHis	247
OY	559	CGTCGGGCTACTGGA---AACCTGCAGACCCACCGCGCTATCTGAACTGCAGATTAACCG	615
Db	248	GluslerLeuylsGlyAlaAspArgSerThrSerClnArgIleValLeuValLeuThrPro	267
OY	616	CAATGTCATATCCAGATGACTTACCTCTCTCAGAGCGCTAAACCCGGGAGAGAGTGCATT	675
Db	268	ThrAlaMetIleArngProAspProPro-----HisProArngluInuGlyInuylsleu	284
OY	676	GAGTTAAAGCTGTGAAGCCATCCGAGAACCCCAACCGCTGTGATGGTAACTGGGTGAGAGTC	735
Db	285	LeuIleuHsCysGluGlyArngIylAsnProValProGlnGlnIlyrLeuThrPluIyus---	303
OY	736	GATGATGAAGAACCTCCAAACATGCCGCTACTCTCTGGGGCAAAACCTGTTCATCAATAACCTA	795
Db	304	GlUglySerValProProLeuylsMetThrGlnGluSerAlaLeuIlePheProPheleu	323
OY	796	AACAACACAGATAACGGTACTTACTCCGCTGTGAGAGCTTCCAAACATAGTGGAAAGCTCAT	855
Db	324	AsnlySerAspSerArgIlyThrIlyGlyCysThrAlaIleThrSerIasnMetGlySerIylus	343
OY	856	TCGGACTATATGCTGTATGTATACAGATCCCAACACAACTATCCCTCTCCACACAAACACC	915
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DT	01-JUN-2001 (TREMblure). 17, Created)		
DT	01-JUN-2001 (TREMblure). 17, Last sequence update)		
DT	01-DEC-2001 (TREMblure). 19, Last annotation update)		
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GN	2610301B19RLK.		
OS	Mus musculus (Mouse).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
OX	NCBI_TaxID=10090;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RC	STRAIN=C57BL/6J; TISSUE=EMBRYO;		
RX	MEDLINE=21085660; PubMed=11217851;		
RA	Kawai J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,		
RA	Arakawa T., Hara A., Fukunishi Y., Kono H., Adachi T., Fukuda S.,		
RA	Atawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,		
RA	Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,		
RA	Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,		
RA	Faltscchmann W., Gaasterland T., Gliss C., King B., Kochiwa H.,		
RA	Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,		
RA	Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,		
RA	Sakai K., Okido T., Furuno M., Aono H., Balderelli R., Barsh G.,		
RA	Blake J., Boffelli D., Bojunga N., Carminci P., de Bonaldo M.F.,		
RA	Gustinstein M.J., Bult C., Fletcher C., Fujita K., Gariboldi M.,		
RA	Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombearts P.,		
RA	Nordone P., Ring B., Rindwald N., Rodriguez I., Sakamoto N.,		
RA	Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,		
RA	Suzuki H., Toyooka K., Wang K.H., Wetz C., Whitaker C., Wilmink L.,		
RA	Yasuhwa-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohsaki S.,		
RA	Hayashizaki Y.;		
RT	Functional annotation of a full-length mouse cDNA collection.;		

RESULT	15			
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DT	01-JUN-2001 (TReMBLrel. 17, Created)			
DT	01-JUN-2001 (TReMBLrel. 17, Last sequence update)			
DT	01-DEC-2001 (TReMBLrel. 19, Last annotation update)			
DE	2610301B19RLK protein.			
GN	2610301B19RLK.			
OS	Mus musculus (Mouse).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Rodentia; Sclurognathia; Muridae; Murinae; Mus.			
OX	NCBI_TaxID=10090;			
RN	SEQUENCE FROM N.A.			
RC	STRAIN=C57BL/6J; TISSUE=EMBRYO;			
RX	MEDLINE=21085660; Pubmed=11217851;			
RA	Kawai J., Shihagawa A., Shibata K., Yoshino M., Itoh M., Ishi Y.,			
RA	Aikawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,			
RA	Aizawa K., Itawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,			
RA	Sato T., Okazaki Y., Gotojohi T., Bono H., Kasukawa T., Saito R.,			
RA	Kado T., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,			
RA	Flitschmann W., Gaasterland T., Gissi C., Kling B., Kochina H.,			
RA	Kuehl P., Lewis S., Matsuo Y., Nikdel I., Pessio G., Quackenbush J.,			
RA	Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,			
RA	Sakai K., Okido T., Furuno M., Kono H., Baldarelli R., Barsh G.,			
RA	Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,			
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RA	Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,			
RA	Suzuki H., Toyooka K., Wang K.H., Wetz C., Whitaker C., Wilmink L.,			
RA	Yusufsh-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohsuki S.,			
RA	Hayashizaki Y.;			
RT	Functional annotation of a full-length mouse cDNA collection.;			

RL Nature 409:685-690(2001).
 DR EMBL: AK011949; BAB27933.1; -.
 DR MGD: MGI:1914402; 2610301B19rlk.
 DR InterPro: IPR003599; Ig.
 DR InterPro: IPR003600; Ig_like.
 DR InterPro: IPR003006; Ig_MHC.
 DR Pfam: PF00047; Ig; 2.
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Alignment Scores:

Pred. No.:	1,36e-17	Length:	549
Score:	298.00	Matches:	93
Percent Similarity:	44.01%	Conservative:	65
Best Local Similarity:	25.91%	Mismatches:	159
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DB 98 SerThrGlnThrValAlaValHisHisProGlnThrGlyPheSerValGlnGlyAspTyr 117
OY 166 GACAGCAGGTTTTCAGTCCGATTTTTCAGACGTAAGTCAAGTGCATGACGAT 225
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DB 118 GlnGlyArGValLeuPheLysasnTyrSerLeuasnAspAlaThrLleThrLeuHisasn 137
OY 226 GTCCTCATCTCGATGAGAGAGATCTTGCACGCTCTACAGGACGCC-----CCA 279
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OY 280 CAGGAGAGTTTACACACCATCAGCTCAGTCTGCTCCACGTAACCTTGATGATGATC 339
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OY 340 CAGAAAGACACGCGAGTGAAGG-----GAGGAGATTGAAGTCAACTGACTGCATG 393
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OY 394 GCCAGCAGACCCGACGACCATCAGTGGTTCAAAGGAAACAAGCAACTCAAAAGCAAA 453
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OY 454 TCAGAGGTGGAGAGTGTGCGACATGTACACTGTGACCACTGACGCTGATGCTGAAGGTG 513
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OY 514 CACAAGAGAGACGAGGGGTCCGGTGATGTCGACAGTGSAGACCCCTGGGTCACCTGGA 573
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OY 574 AACCTGACAGCCAGCGCTATCTAGAAGTGCATATAAACCCAGAGCTATATCCAGATG 633
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DB 276 TyrAspGlyAsnThrPheValGlyArgLysGly-----ValAsnLeuLysCysAsnAla 293
OY 694 ATGGGGAAGCCCGCATGCTGATGATGAATGATGATGATGATGATGATGATGATGATGAT 753
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OY 754 CATGCCGTACTGTCTGGGCCAAACCTG---TTCATCAATAACCTAACAACCAAGATTAAC 810
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Search completed: November 20, 2002, 07:56:07
 Job time : 77.25 secs

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 20, 2002, 07:34:43 ; Search time 12.5 Seconds
(without alignments)
790.888 Million cell updates/sec

Title: US-09-778-187b-4_COPY_21_356

Perfect score: 1765

Sequence: 1 IPTGDGONLTKDVTYIEG.....LTIITDSRAGEGRTIGAVDH 336

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

262574

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA.*
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4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep.*
5: /cgn2_6/ptodata/1/1aa/PCUTS.COMB.pep.*
6: /cgn2_6/ptodata/1/1aa/Backfilest.pep.*

SUMMARIES

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3	625.5	35.4	444	2	US-08-658-984A-5
4	625.5	35.4	444	4	US-08-660-531-5
5	231	13.1	393	1	US-08-429-742-2
6	204.5	11.6	388	1	US-08-429-742-4
7	204.5	11.6	458	4	US-09-435-956A-1
8	204	11.6	642	1	US-08-217-299-1
9	204	11.6	698	2	US-08-602-725-36
10	204	11.6	734	2	US-08-389-459A-17
11	204	11.6	734	3	US-08-987-867A-17
12	193	10.9	1395	4	US-09-540-245A-15
13	192	10.9	1651	4	US-09-540-245A-18
14	191.5	10.8	583	2	US-08-432-016-2
15	191.5	10.8	583	2	US-08-684-594-2
16	187.5	10.6	308	2	US-08-414-657D-46
17	187.5	10.6	325	2	US-08-414-657D-2
18	187.5	10.6	325	2	US-08-414-657D-41
19	187.5	10.6	325	4	US-09-135-080-2
20	187	10.6	287	2	US-08-414-657D-48
21	187	10.6	304	2	US-08-414-657D-44
22	185.5	10.5	315	2	US-08-414-657D-47
23	185.5	10.5	338	2	US-08-414-657D-42
24	185.5	10.5	338	2	US-08-414-657D-43
25	185.5	10.5	338	4	US-09-135-080-2
26	185.5	10.5	1241	4	US-09-040-774-2
27	185	10.5	287	2	US-08-414-657D-49

28	185	10.5	310	2	US-08-414-657D-45	Sequence 45, Appl
29	183.5	10.4	477	2	US-08-432-016-3	Sequence 3, Appl
30	183.5	10.4	477	2	US-08-684-594-3	Sequence 3, Appl
31	183.5	10.4	1297	4	US-09-540-245A-17	Sequence 17, Appl
32	179.5	10.2	338	2	US-08-414-657D-60	Sequence 60, Appl
33	179.5	10.2	338	4	US-09-135-080-8	Sequence 8, Appl
34	177	10.0	1447	4	US-09-041-886-25	Sequence 25, Appl
35	177	10.0	1447	5	PCR-US94-05277-2	Sequence 2, Appl
36	174.5	9.9	478	5	PCR-US95-08493-15	Sequence 15, Appl
37	174.5	9.9	860	5	PCR-US95-08493-19	Sequence 19, Appl
38	174.5	9.9	868	5	PCR-US95-08493-17	Sequence 17, Appl
39	173.5	9.8	408	4	US-09-724-864-62	Sequence 62, Appl
40	172.5	9.8	869	1	US-08-374-834-16	Sequence 16, Appl
41	172.5	9.8	869	2	US-08-644-271-29	Sequence 29, Appl
42	172.5	9.8	869	4	US-09-077-955-33	Sequence 33, Appl
43	172	9.7	607	2	US-08-752-307B-12	Sequence 12, Appl
44	172	9.7	607	4	US-09-707-802-12	Sequence 12, Appl
45	172	9.7	607	4	US-09-991-326-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1
US-08-659-984A-1
; Sequence 1, Application US/08659984A
; Patent No. 5942400

GENERAL INFORMATION:
; APPLICANT: Anderson, John P.

; APPLICANT: Sinha, Sukanto
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase

; TITLE OF INVENTION: Assays for Detecting Beta-Secretase
; NUMBER OF SEQUENCES: 21

CORRESPONDENCE ADDRESS:
; ADDRESS: Townsend and Townsend and Crew LLP

; STREET: Two Embarcadero Ctr., 8th Floor
; CITY: San Francisco

; STATE: California
; COUNTRY: USA

ZIP: 94111-3834

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/659,984A
; FILING DATE: 07-JUN-1996

CLASSIFICATION: 436
; PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/485,152
; FILING DATE: 07-JUN-1995

ATTORNEY/AGENT INFORMATION:
; NAME: Heslin, James M.

REGISTRATION NUMBER: 29,541
; REFERENCE/DOCKET NUMBER: 15270-002810US

TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-326-2400

TELEFAX: 415-326-2422
; INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids

TYPE: amino acid
; STRANDEDNESS: single

TOPOLOGY: linear
; MOLECULE TYPE: protein

US-08-659-984A-1

Query Match 35.4%; Score 625.5; DB 2; Length 421;
Best Local Similarity 39.0%; Pred. No. 1,2e-47;
Matches 137; Conservative 66; Mismatches 121; Indels 27; Gaps 6;

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Db	190	RVDHESLNT	PCVAMQVLE	NIHT	PSVKI---	IPSP	PEQ	GRPL	ITCES	SKG	246
QY	242	WVRVDDEN--	POHAYLSGN	LFINNL	KNDNG	TYRC	EASNI	YGK	ASHD	MLYV	299
Db	247	WPKDGEELP	DPDMVYSG	RELILF	LKNKD	NTG	YRC	EA	NTIG	QSSAE	306
QY	300	PPPTTTTTTT	TTTTTILIT	IF-----	-----	DSR	AGEG	TGA	V	DA	336
Db	307	LPTTILP	SLTATVTT	YVAIT	SPIT	TSAT	SSIR	DP	NAL	AGQ	353

RESULT 3
 US-08-659-984A-5
 Sequence 5, Application US/08659984A
 Patent No. 5942400
 GENERAL INFORMATION:
 APPLICANT: Anderson, John P.
 APPLICANT: Sinha, Sukanto
 APPLICANT: Jacobson-Croak, Kirsten L.
 TITLE OF INVENTION: Assays for Detecting Beta-Secretase
 TITLE OF INVENTION: Inhibition
 NUMBER OF SEQUENCES: 21
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Townsend and Crew LLP
 STREET: Two Embarcadero Ctr., 8th Floor
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94111-3834
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/659,984A
 FILING DATE: 07-JUN-1996
 CLASSIFICATION: 436
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/485,152
 FILING DATE: 07-JUN-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Heslin, James M.
 REGISTRATION NUMBER: 29,541
 REFERENCE/DOCKET NUMBER: 15270-002810US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-326-2400
 TELEFAX: 415-326-2422
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 444 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-659-984A-5

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 20, 2002, 07:34:43 ; Search time 15 Seconds

(without alignments)
2153.411 Million cell updates/sec

Title: US-09-778-187b-4_COPY_21_356

Perfect score: 1765

Sequence: 1 IPGDDGQNLPTKDVTVIEG.....LTITDSRAGECTIGAVDH 336

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR_73:*

1: PIR1:*

2: PIR2:*

3: PIR3:*

4: PIR4:*

SUMMARIES

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB ID	Description
1	261.5	14.8	5175	2 T20992	hypothetical prote
2	261.5	14.8	5198	2 T43290	hemiscutin precurs
3	245	13.9	407	2 T08732	hypothetical prote
4	238	13.5	725	2 JE0099	neural cell adhesi
5	234	13.3	1088	1 IJXLNL	neural cell adhesi
6	228.5	12.9	7962	2 I38346	elastic titin - hu
7	226	12.8	4162	2 T42633	connectin/titin -
8	223	12.6	344	2 I56551	neurofilin - rat
9	222	12.6	530	2 A53437	poliovirus recepto
10	222	12.6	725	2 JE0100	neural cell adhesi
11	222	12.6	1092	1 JN0635	neural cell adhesi
12	220	12.5	392	2 B44194	poliovirus recepto
13	220	12.5	417	2 A44194	poliovirus recepto
14	220	12.5	467	2 HLMSP3	poliovirus recepto
15	220	12.5	538	2 I68093	PRR2 delta - human
16	218	12.4	392	1 RWHUPD	poliovirus recepto
17	218	12.4	417	1 RWHUPA	poliovirus recepto
18	215	12.2	408	2 I53960	PRR2 alpha - human
19	214	12.1	1011	2 T13669	neuromusculin - fr
20	212	12.0	4391	2 A38096	perlecan precursor
21	210	11.9	518	2 JC4024	poliovirus recepto
22	209.5	11.9	345	2 S03199	opioid-binding pro
23	209.5	11.9	384	2 I50419	s-glycerin precursor
24	207.5	11.8	345	2 JC4025	opioid-binding cel
25	206.5	11.7	862	2 I49583	differentiation an
26	206.5	11.7	868	2 A46512	CD22 homolog/8 lym
27	206	11.7	847	2 JH0371	B-cell adhesion pr
28	205.5	11.6	812	2 B42632	cell adhesion mole
29	205.5	11.6	932	2 A42632	cell adhesion mole

30	204	11.6	702	2 A36319	carcinoembryonic a
31	202	11.4	1443	2 I50600	neogenin - chicken
32	201.5	11.4	345	2 JC1239	opioid-binding pro
33	200.5	11.4	338	2 JC1238	opioid-binding pro
34	199	11.3	338	2 JC5519	50k glycoprotein p
35	195.5	11.1	765	2 C42632	cell adhesion mole
36	194.5	11.0	3707	2 S18252	heparan sulfate pr
37	193	10.9	761	1 IJHUNG	neural cell adhesi
38	193	10.9	1091	1 IJCHNL	neural cell adhesi
39	193	10.9	1323	2 PN0568	connectin 3B - chl
40	193	10.9	1612	2 T30805	ducl1 protein - mo
41	192	10.9	1036	2 S22383	axonin 1 precursor
42	191.5	10.8	583	2 I39428	alcam - human
43	189.5	10.7	588	2 A45254	surface glycoprote
44	189.5	10.7	646	2 I38049	cell surface glyco
45	189	10.7	853	1 IJBNOC	neural cell adhesi

ALIGNMENTS

RESULT 1

T20992 hypothetical protein F15G9.4a - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 18-Feb-2000

C:Accession: T20992; T24733

R:Sulston, J.
submitted to the EMBL Data Library, December 1994

A:Reference number: Z19355

A:Accession: T20992

A>Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA

A:Residues: 1-5175 <N1>

A:Cross-references: EMBL:Z47068; PIDN:CA87335.1; GSPDB:GNO0028; CESP:F15G9.4a

A:Experimental source: clone T09B9

C:Genetics:

A:Gene: CESP:F15G9.4a

A:Map position: X

A:Insertions: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184

A:Deletions: 2512/2; 2593/3; 2699/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/1; 2967/3; 2991/3; 303

1; 4225/1; 4361/1; 4408/1; 4456/1; 4647/3; 4838/1; 4879/1; 4941/1; 5011/1; 50

Query Match 14.8%; Score 261.5; DB 2; Length 5175;

Best local similarity 24.6%; Pred. No. 8.2e-10;

Matches 87; Conservative 65; Mismatches 130; Indels 71; Gaps 15;

14 VTIVGEVATISGVNKKDDSVIQLNPRQRTYRDRFPL-----KDSRFQILNFSSEPL 69

DB 2200 VTAIRGALPFCPCPD--DDK-----NFKGQILNLRNVOPILEADARITPL---SND 2249

70 KVLSTNVSISDEGRYFCQLYDPPQESTY--TIVLVPPRLNMLIDIQK--TAVEGEIEVN 127

DB 2250 RUTIIINTVENDEGOYSCRVKNDAGENSEFKAIVLPPIIMLDKDKNTAVESHSTVLS 2309

QY 128 CTAMASKPATITRMFKG-----NKEIKGKSEVEMSDMYTVTSOLMKVHK 173

DB 2310 CPA-TGKPEPDITWFKDEBAHIENIADIIPGELNG-----NQLITTRIK 2354

QY 174 EDDGVPIGVQEHFPAVNTLQRTQRYLEYQKPOVH---IQMTYPIQLGTRREGDARELCE 230

DB 2355 EBDACKYTCGADNSA--GSVEDVAVVNTITPPIKDKGIPSYESQ-----QNERVVISCP 2408

QY 231 AIGKPPVAVVTVWRVDEMPQHAVL---SGPNLFINNLKNTDNGTYRCEASNIYKAKHS 286

```

Db      2409  VYAR-PAKITWLMKAGKRLQSDKFKVTSANGQKLLFLKLRDSSKTYCIAFNENAGTDKR 2467
Oy      287  DYMLKYVPDPTTIP-----PPTTTTTTTTTTTTTLTIITDSRAGE 327
Db      2468  DFKVSMALVAPSPDEPNIVRITVNSGNSPTLHCAPKAGSPSPPTWLMKGNMATE 2520

RESULT 2
T43290
hem1centlin precursor - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 11-Jan-2000 #sequence revision 11-Jan-2000 #text_change 18-Feb-2000
C:Accession: T43290; T20993; T24734
R:Voegel, B.E.; Hedgecock, E.M.
submitted to the EMBL Data Library, June 1998
A:Description: Hem1centlin is required for hemidesmosome mediated cell adhesion and germ
A:Reference number: Z22396
A:Accession: T43290
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-5198 <VOG>
A:Cross-references: EMBL:AF074901; PIDN:AAC26792.1
R:Su1ston, J.
submitted to the EMBL Data Library, December 1994
A:Reference number: Z19355
A:Accession: T20993
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-5198 <NTL>
A:Cross-references: EMBL:Z47068; PIDN:CAA87336.1; GSPDB:GN00028; CESP:F15G9.4b
A:Experimental source: clone F15G9
R:Keshaw, J.
submitted to the EMBL Data Library, December 1994
A:Reference number: Z19929
A:Accession: T24734
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-5198 <MI2>
A:Cross-references: EMBL:Z47070; PIDN:CAA87345.1; GSPDB:GN00028; CESP:F15G9.4b
A:Experimental source: clone T09B9
C:Genetics:
A:Gene: him-4; F15G9.4b
A:Map position: X
A:Introns: 85/1; 120/1; 334/3; 370/1; 477/2; 606/3; 664/1; 935/3; 977/1; 1051/3; 1184/3; 1212/2; 2593/3; 2659/3; 2759/1; 2852/1; 2889/3; 2913/3; 2941/3; 2967/3; 2991/3; 3033/4; 4225/1; 4361/1; 4408/1; 4456/1; 4498/1; 4647/3; 4838/1; 4902/1; 4964/1; 5034/1; 5100/

Query Match      14.88; Score 261.5; DB 2; Length 5198;
Best Local Similarity 24.68; Pred. No. 8.3e-10;
Matches 87; Conservative 65; Mismatches 130; Indels 71; Gaps 15;

Oy      14  VTVEGEVATISCVQVNSKSDSVIQLNPNROTIFYRDFRPL-----KDSRFQLNFSSEL 69
Db      2200  VTAIKIGGALPKPCPID--DK-----NFKGIIIMLRNQPILDLEADRIRRL--SDR 2249
Oy      70  KVSLTNVSISDEGRFCQLYTDPQESYT-tTIVLVPRNMLIDIQKD-TAVEGEELFN 127
Db      2250  RLTIINTVENEGQYSCRYKMDAGENSDFKATVLPPTIIMLDKDKKTAVERSTVLS 2309
Oy      128  CTAAASKRATITIRPKG-----NKLKGSVEEEMSDMTVTSQMLKVKH 173
Db      2310  CPA-TGKEPDITWFKGDEAIHINADIIPNGELNG-----NQAKITRIK 2354
Oy      174  EDDGVPCVQVEHNAVGTGNLTQRYLEYQYKPOVH---IQMTYPLQGLTREGDAFELCE 230
Db      2355  EGDAGKTYCEADNSA--GSVQDYNAVNYITPKIKKGSIDPDIYESQ-----QNERVYISCP 2408
Oy      231  AIGRPQPVMTVWRVDEMPQHAVL---SGPNLFINNLTNGTNGYRCEASNIIVGRAHS 286
Db      2409  VYAR-PAKITWLMKAGKRLQSDKFKVTSANGQKLYFLKLRDSSKTYCIAFNENAGTDKR 2467
Oy      287  DYMLKYVPDPTTIP-----PPTTTTTTTTTTTTTLTIITDSRAGE 327
Db      2468  DFKVSMALVAPSPDEPNIVRITVNSGNSPTLHCAPKAGSPSPPTWLMKGNMATE 2520

```

DB 2468 DFKVSMVAAPSDPDEPNIVRITVNSGNPSTLHCPAKGSPSPRTITLTKGNMALE 2520

RESULT 3
T08732
hypothetical protein DKFZ566B0846.1 - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 13-Aug-1999
C:Accession: T08732
R.Oltenevaider, B.; Obernaler, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, May 1999
A:Reference number: Z16474
A:Accession: T08732
A:Molecule type: mRNA
A:Residues: 1-407 <OTF>
A:Cross-references: EMBL:AL050071
C:Experimental source: fetal kidney; clone DKFZ566B0846
C:Genetics:
A>Note: DKFZ566B0846.1

Query Match 13.9%; Score 245; DB 2; Length 407;
Best Local Similarity 27.7%; Pred. No. 5,3e+10;
Matches 77; Conservative 43; Mismatches 116; Indels 42; Gaps 10;

OY 82 GRFFQOLYTD--POESTTTTVLPVRNLMIDIOKDAVBG--EIEVNCATAMASKAT 137
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 2 GKICKATVFPLGNQSSSTVTVLVEPTVSLIK-GPDSILDGNETVAICIAATGKRFA 60
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 138 TRWFKGKMKELKSGSEVENMSDMY-----TYTSOLMLKVHKREDGVPVICOEHPAVNGN 192
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 61 HIDW-EGD-----IGEMESTTTFSPNETATTIISQYKLPTFRAGKRITTCYVKHRALEKD 114
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 193 LQTQRYLEVQYKPQYHIOMTYPLQGLTRGDPAFELTCEAIKRPQVWNTVWRVDENPMQH 252
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 115 IRYSTLIHQYAPEVSVMGYDGMNFVGRKG-VNLKCAADANPPFPKSVWSLDGQMPWG 172
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 253 AVLSEPNL-FINLNLTONGTYRCASNVICGKAHDYLKYDDP--TTTPP----- 301
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 173 LLASNTLHFHPLFNFSGVYICKVTNSLGQRSDQKIYVYSDPPTTLTIQPIOWHPST 232
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 302 -----PRTTTTTTTTTTTTTTTTTTTTDSRAG 326
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 233 ADIEDLATEPKKLPPEPLSTLATIKDDTITATIIASVYG 270

RESULT 4
JE0099
neural cell adhesion molecule 1 - African clawed frog
N:Alternate names: N-CAM 1
C:Species: Xenopus laevis (African clawed frog)
C:Date: 19-May-1998 #sequence_revision 29-May-1998 #text_change 21-Jul-2000
C:Accession: JE0099
R.Kudo, M.; Takayama, E.; Tadokuro, T.; Shiohara, K.
Biochem. Biophys. Res. Commun. 245, 127-132, 1998
A>Title: Molecular cloning of ssd-form neural cell adhesion molecules (N-Cams) as the
A:Reference number: JE0099; MUID:98204770; PMID:9535795
A:Accession: JE0099
A:Molecule type: mRNA
A:Residues: 1-725 <KUD>
A:Cross-references: DDBJ:AB008162; NID:g3116226; PIDN:BAA25931.1; PID:g3116227
A:Experimental source: heart
C:Comment: This protein mediates and regulates various cell-cell interactions through
F:413-475/domain: immunoglobulin homology <IM>
F:512-589/domain: fibronectin type III repeat homology <3R>

Query Match 13.5%; Score 238; DB 2; Length 725;
Best Local Similarity 26.2%; Pred. No. 3,4e+09;
Matches 89; Conservative 61; Mismatches 148; Indels 42; Gaps 15;

OY 12 KDVIYIVEAVATISC---QVN---KSDDSYQLLN----PKRQTIYFRDFRPLKDSRFQL 61
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

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OM protein - protein search, using sw model

Run on: November 20, 2002, 07:34:42 ; Search time 9 Seconds
(without alignments)
1548.450 Million cell updates/sec

Title: US-09-778-187b-4_COPY_21_356

Perfect score: 1765
Sequence: 1 IPTGDCGNLFRKDYVTEGE.....LTIITDSRAGEGTIGAVDH 336

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 112892 seqs, 41476328 residues

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_40:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	234	13.3	1088	1 NCAL_XENLA	P16170 xenopus lae
2	226.5	12.8	515	1 PVR1_PIG	O96176 sus scrofa
3	223.5	12.6	837	1 NCAL_MOUSE	O35136 mus musculu
4	223	12.6	344	1 NTR1_RAT	O62718 rattus norv
5	222	12.6	530	1 PVR2_MOUSE	P33507 mus musculu
6	222	12.6	1092	1 NCAL_XENLA	P36335 xenopus lae
7	220	12.5	337	1 G55A_CHICK	O96892 gallus gall
8	220	12.5	417	1 PVR_CERAE	P33506 cercopithe
9	220	12.5	538	1 PVR2_HUMAN	O92692 homo sapien
10	218.5	12.4	517	1 PVR1_HUMAN	O15223 homo sapien
11	217	12.3	417	1 PVR_HUMAN	P15151 homo sapien
12	215.5	12.2	837	1 NCAL_MOUSE	O15394 mus musculu
13	211	12.0	847	1 CD22_HUMAN	P20273 homo sapien
14	211	12.0	4393	1 PGBM_HUMAN	P98160 homo sapien
15	209.5	11.9	345	1 OPRM_BOVIN	P11834 bos taurus
16	209	11.8	1242	1 NPNH_MOUSE	O94287 mus musculu
17	208.5	11.8	353	1 CEFU_CHICK	O90773 gallus gall
18	207.5	11.8	345	1 OPRM_HUMAN	O14982 homo sapien
19	207	11.7	1493	1 NEOL_MOUSE	P93729 mus musculu
20	206.5	11.7	862	1 CD22_MOUSE	P33329 mus musculu
21	204	11.6	702	1 CEN5_HUMAN	P06731 homo sapien
22	203	11.5	1461	1 NEOL_HUMAN	O92859 homo sapien
23	203	11.4	515	1 PVR1_MOUSE	O91466 mus musculu
24	202	11.4	1443	1 NEOL_CHICK	O90610 gallus gall
25	201.5	11.4	345	1 OPRM_RAT	P33736 rattus norv
26	199	11.3	338	1 LAMP_CHICK	O96919 gallus gall
27	198	11.2	1377	1 NEOL_RAT	P97603 rattus norv
28	197	11.2	583	1 C166_MOUSE	O61490 mus musculu
29	194.5	11.0	3707	1 PGBM_MOUSE	O05793 mus musculu
30	194	11.0	1091	1 NCAL_CHICK	P13590 gallus gall
31	193	10.9	761	1 NCAL_HUMAN	P13591 homo sapien
32	193	10.9	848	1 NCAL_HUMAN	P13591 homo sapien
33	192	10.9	1036	1 AKOL_CHICK	P28685 gallus gall

34	191.5	10.8	583	1 C166_HUMAN	Q13740 homo sapien
35	189.5	10.7	646	1 MO18_HUMAN	P43121 homo sapien
36	189	10.7	853	1 NCAL_BOVIN	P31836 bos taurus
37	189	10.7	858	1 NCAL_RAT	P13596 rattus norv
38	188	10.7	588	1 C166_CHICK	P43292 gallus gall
39	188	10.7	1447	1 DCC_MOUSE	P70211 mus musculu
40	187.5	10.6	338	1 LAMP_HUMAN	Q13449 homo sapien
41	185.5	10.5	338	1 LAMP_RAT	O62813 rattus norv
42	185.5	10.5	764	1 ICCR_DROME	O08180 drosophila
43	185.5	10.5	1234	1 NPNH_RAT	O91044 rattus norv
44	185.5	10.5	1241	1 NPNH_HUMAN	O60500 homo sapien
45	182.5	10.3	2012	1 DSCA_HUMAN	O60469 homo sapien

ALIGNMENTS

RESULT 1
ID NCAL_XENLA STANDARD; PRT: 1088 AA.
AC P16170;
DT 01-APR-1990 (Rel. 14, Created)
DT 01-APR-1990 (Rel. 14, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Neutral cell adhesion molecule 1, 180 kDa isoform precursor (N-CAM 180).
GN NCAM1.
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipridae; Pipridae; OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=90098871; PubMed=2481269;
RA Kriegl P.A., Sakaguchi D.S., Kintner C.R.;
RT Primary structure and developmental expression of a large cytoplasmic domain form of Xenopus laevis neural cell adhesion molecule (NCAM).
RT Nucleic Acids Res. 17:10321-10335(1989).
CC -1- FUNCTION: THIS PROTEIN IS A CELL ADHESION MOLECULE INVOLVED IN NEURON-NEURON ADHESION, NEURITE FASCICULATION, OUTGROWTH OF NEURITES, ETC.
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- ALTERNATIVE PRODUCTS: 2 isoforms; N-CAM 180 (shown here) and N-CAM 140; are produced by alternative splicing.
CC -1- TISSUE SPECIFICITY: EXPRESSED IN NEURON AND IN PRESUMPTIVE NEURAL TISSUE.
CC -1- DEVELOPMENTAL STAGE: THE MRNA ENCODING THIS LD-NCAM IS THE MAJOR TRANSCRIPT PRESENT IN BOTH MATERNAL RNA AND IN THE EMBRYO DURING EARLY NEURAL DEVELOPMENT.
CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
CC -1- SIMILARITY: CONTAINS 5 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC -1- SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LIKE DOMAINS.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@sib-sib.ch).
CC EMBL: M25696; AAA49909.1; .
CC PIR: S09600; IJXNL.
CC HSP: P56276; ITIK.
DR InterPro: IPR003961; FN_III.
DR InterPro: IPR003006; IG_MHC.
DR InterPro: IPR003598; IG_C2.
DR Pfam: PF00041; fn3; 2.
DR Pfam: PF00047; Ig; 5.
DR SMART: SM00060; FN3; 2.
DR SMART: SM00408; IGc2; 5.

KW Cell adhesion; Glycoprotein; Transmembrane; Repeat; Brain;
KW Immunoglobulin domain; Alternative splicing; Signal.
FT SIGNAL 1 19
FT CHAIN 20 1088
FT DOMAIN 20 705
FT DOMAINMEM 706 723
FT DOMAIN 724 1088
FT DOMAIN 139 100
FT DOMAIN 129 193
FT DOMAIN 225 289
FT DOMAIN 315 386
FT DOMAIN 413 480
FT DOMAIN 512 589
FT DOMAIN 618 686
FT DOMAIN 149 153
FT DOMAIN 158 162
FT DISULFID 41 93
FT DISULFID 136 186
FT DISULFID 232 282
FT DISULFID 323 379
FT DISULFID 420 473
FT CARBOHYD 82 82
FT CARBOHYD 219 219
FT CARBOHYD 310 310
FT CARBOHYD 341 341
FT CARBOHYD 417 417
FT CARBOHYD 443 443
FT CARBOHYD 472 472
FT VARSPLIC 804 1049
SQ SEQUENCE 1088 AA; 117778 MW; 627385B03F3E83 CRC64;

Query Match 13.3%; Score 234; DB 1; Length 1088;
Best Local Similarity 25.9%; Pred. No. 5.9e-10;
Matches 88; Conservative 62; Mismatches 148; Indels 42; Gaps 15;

QY 12 KDVTYVEGEVATITSC---QVNSK---DDSYTQLN---PNRQTYFRDPRPLKDSRFOL 61
DB 199 KDIQVIVNPPPTIAROLRNATANNAAESVYLSCDADGFPDPDISMLKKEPIEDGE-EK 257
QY 62 LNFSSSEKLKSLTNVSGIDSGRYFCOLYTPDQESYTTITVLPRLNMLDIOKDAVEG 121
DB 258 ISNENQSEHTIHVEKDEDAEYSC-IANNQGEAERTILLKAYAPKITYVENKRAVEL 316
QY 122 EEIEVNCTAMASKPATITFMFGKNKE-----LKGSEVEEMSDYTVTSQMLKVHKE 174
DB 317 DEITLFCFA-SGDPISPISTWRAVNISSEATLGDHIYVKEHIRM---SALTLDIQY 371
QY 175 DCGVPYICQVEHPAVNGNLOTQRYLEVQYKPOVHIQMTYPLQGLTRBGAFELTCRAIGK 234
DB 372 TDAGEYFCIASNP-IGVDQAM-YFEVOYAPKIR---GPVVVYTWEGNPNVTICCEFAH 425
QY 235 POFVMTWVRVDEEMPOH-----AVLSGP---NLFINLNKNTDNGTYRCASNIYVKRAS 286
DB 426 PR-AAVTWFRDGLLSSNFSNKIKYSGPSSSELEVNPDSEDFGNYNCTAINTIGHERS 484
QY 287 DYMLVYDPTTIPPTTTTTLTITLITDSRAG 326
DB 485 EFTLVQADTPSS---PAIRKVEPYSSTVMIVFDEPDSTG 521

RESULT 2
PVAL_PIG STANDARD; PRT: 515 AA.
AC 09GL76;
DT 16-OCT-2001 (Rel. 40. Created)
DT 16-OCT-2001 (Rel. 40. Last sequence update)
DT 15-JUN-2002 (Rel. 41. Last annotation update)
DE Poliovirus receptor related protein 1 precursor (Herpes virus entry mediator C) (HvEC) (Nectin 1).
GN PVAL1 OR PRL1 OR HVEC.
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
ON NCBI_TaxID=9823;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21176378; PubMed=11277703;
RA Milne R.S.B., Connolly S.A., Krummenacher C., Eisenberg R.J.,
RA Cohen G.H.,
RT "Porcine HvEC, a member of the highly conserved HvEC/nectin 1 family,
is a functional alphaherpesvirus receptor.";
RL Virology 281:315-328(2001).
CC -1- FUNCTION: PROBABLY INVOLVED IN CELL ADHESION. RECEPTOR FOR
ALPHAHERPESVIRUS (HSV-1, HSV-2 AND PSEUDORABIES VIRUS) ENTRY INTO
CELLS.
CC -1- SUBUNIT: Interacts with HSV glycoprotein D (gD) (By similarity).
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
CC -1- SIMILARITY: CONTAINS 1 IMMUNOGLOBULIN-LIKE V-TYPE DOMAIN.
CC -1- SIMILARITY: CONTAINS 2 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
between the Swiss Institute of Bioinformatics and the EMBL outstation -
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modified and this statement is not removed. Usage by and for commercial
entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
or send an email to license@sib-sib.ch).

DR EMBL: AF08632; AAC30281.1; -.
DR HSSP: P06907; INEU
DR InterPro: IPR003559; Ig.
DR InterPro: IPR003506; Ig_MHC.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003596; Ig_V.
DR Pfam: PR00047; Ig_2.
DR SMART: SM00409; Ig_3.
DR SMART: SM00410; Ig_Like; 1.
DR SMART: SM00408; IgC2; 2.
DR SMART: SM00406; IgC; 1.
KW Cell adhesion; Immunoglobulin domain; Receptor; Transmembrane;
KW Repeat; Glycoprotein; Signal.
FT SIGNAL 1 30
FT CHAIN 31 515
FT DOMAIN 31 355
FT TRANSMEM 356 376
FT DOMAIN 377 515
FT DOMAIN 44 131
FT DOMAIN 165 233
FT DOMAIN 262 323
FT DOMAIN 437 443
FT DOMAIN 447 447
FT DISULFID 51 124
FT DISULFID 172 226
FT DISULFID 269 316
FT CARBOHYD 36 36
FT CARBOHYD 72 72
FT CARBOHYD 139 139
FT CARBOHYD 202 202
FT CARBOHYD 286 286
FT CARBOHYD 297 307
FT CARBOHYD 307 307
FT CARBOHYD 332 332
SQ SEQUENCE 515 AA; 57047 MW; BFA00320DDE3785 CRC64;

Query Match 12.8%; Score 226.5; DB 1; Length 515;
Best Local Similarity 25.4%; Pred. No. 8.3e-10;
Matches 79; Conservative 49; Mismatches 132; Indels 51; Gaps 12;

QY 14 VVIEGEVATITSCQVNSKSDSYTQLNPNRQTYFRDPRPLKDSRFOLNFSSELSKYSL 73
DB 62 ITQVWQKATNSKQN-----VAIYNPAMGVSVLAPY-----EREFRLRSPFTGTITL 111
QY 74 TNVSGIDSGRYFCOLYTPDPP---QESYTTITVLPRLNMLDIO-----KDAVEGEE 123

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 20, 2002, 07:34:43 ; Search time 28.5 Seconds
(without alignments)
2429.187 Million cell updates/sec

Title: US-09-778-187b-4_COPY_21_356

Perfect score: 1765
Sequence: 1 IPTGGGQNLFTKDVYIEGEVATISCOVKNKSDSVLIQLNPNROTIVFRFRPLKDSRQ 336

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries

Database :

1: SP_ARCHAEA:*
2: SP_BACTERIA:*
3: SP_FUNGI:*
4: SP_HUMAN:*
5: SP_INVERTEBRATE:*
6: SP_MAMMAL:*
7: SP_MHC:*
8: SP_ORGANELLE:*
9: SP_PHAGE:*
10: SP_PLANT:*
11: SP RODENT:*
12: SP_VIRUS:*
13: SP_VERTEBRATE:*
14: SP_UNCLASSIFIED:*
15: SP_VIRUS:*
16: SP_BACTERIAP:*
17: SP_ARCHAEA:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1765	100.0	445	11	Q8R4L1
2	1749.5	99.1	456	11	Q8R5M8
3	1749.5	99.1	494	11	Q8CRX3
4	1738	98.5	442	4	Q9B167
5	1541	87.3	336	11	Q9D6E7
6	1204	68.2	295	11	Q922H8
7	1171.5	66.4	306	11	Q9QYL4
8	1151	65.2	295	11	Q9QYL6
9	1062	60.2	289	11	Q9QYL5
10	1038.5	58.8	278	11	Q9QYL3
11	624	35.4	388	11	Q8R464
12	611	34.6	381	4	Q9Y4A4
13	480.5	27.2	396	11	Q9N28
14	467.5	26.5	432	4	Q9UJPI
15	298	16.9	549	11	Q9D006
16	295	16.7	549	11	Q9JLB8

17	289	16.4	549	4	Q9NOS3	Q9NOS3 homo sapien
18	274.5	15.6	438	11	Q9JLB7	Q9JLB7 mus musculu
19	274.5	15.6	510	11	Q9JLB8	Q9JLB8 mus musculu
20	261.5	14.8	5198	5	Q76518	Q76518 caenorhabd1
21	252	14.3	439	13	Q57349	Q57349 gallus gall
22	245	13.9	407	4	Q9Y412	Q9Y412 homo sapien
23	239	13.5	1482	5	Q9V4Y0	Q9V4Y0 drosophila
24	238	13.5	725	13	Q73633	Q73633 xenopus lae
25	234	13.3	393	4	Q95727	Q95727 homo sapien
26	228.5	12.9	7962	4	Q10465	Q10465 homo sapien
27	228.5	12.9	34350	4	Q8W242	Q8W242 homo sapien
28	226	12.8	4162	13	Q98918	Q98918 gallus gall
29	222	12.6	725	13	Q73634	Q73634 xenopus lae
30	221	12.5	344	4	Q9P121	Q9P121 homo sapien
31	220	12.5	344	13	Q9DF61	Q9DF61 gallus gall
32	220	12.5	467	11	Q91V79	Q91V79 mus musculu
33	220	12.5	1675	13	Q98SW4	Q98SW4 brachydanio
34	219.5	12.4	1270	5	Q9U3P2	Q9U3P2 caenorhabd1
35	219	12.4	344	11	Q99PU0	Q99PU0 mus musculu
36	219	12.4	449	4	Q9UE16	Q9UE16 homo sapien
37	219	12.4	1380	4	Q9HCK4	Q9HCK4 homo sapien
38	217	12.3	417	4	Q96BJ1	Q96BJ1 homo sapien
39	216.5	12.3	605	4	Q96J84	Q96J84 homo sapien
40	216	12.2	1060	11	Q9QZ13	Q9QZ13 rattus norv
41	215	12.2	1032	13	Q8UVD6	Q8UVD6 brachydanio
42	214	12.1	413	5	Q9VAR6	Q9VAR6 drosophila
43	214	12.1	1011	5	Q24273	Q24273 drosophila
44	214	12.1	1079	5	Q9VNP2	Q9VNP2 drosophila
45	214	12.1	1102	11	Q923W7	Q923W7 mus musculu

ALIGNMENTS

RESULT 1

Q8R4L1 PRELIMINARY: PRT: 445 AA.
AC Q8R4L1:
DT 01-JUN-2002 (TREMBLrel. 21, Created)
DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Tumor suppressor in lung cancer 1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Granulata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=129/SVJ;
RA Fukami T., Maruyama T., Murakami Y.;
RT "Identification of murine orthologue of the TSLC1 gene."
DR Submitted (OCT-2001) to the EMBL/Genbank/DBJ databases.
DR EMBL: AF434663; AAL86736.1; -; CSD5A070DAF70E55 CRC64;
SQ SEQUENCE 445 AA; 48664 MW; CSD5A070DAF70E55 CRC64;

Query Match 100.0%; Score 1765; DB 11; Length 445;
Best Local Similarity 100.0%; Pred. No. 7.3e-139;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	IPTGGGQNLFTKDVYIEGEVATISCOVKNKSDSVLIQLNPNROTIVFRFRPLKDSRQ 60
DB	42	IPTGGGQNLFTKDVYIEGEVATISCOVKNKSDSVLIQLNPNROTIVFRFRPLKDSRQ 101
QY	61	LNFFSSSELKVSILTNVISDEGRFCOLYTDPPQESTYTTIVLVPPRNLMIDOKDTAVE 120
DB	102	LNFFSSSELKVSILTNVISDEGRFCOLYTDPPQESTYTTIVLVPPRNLMIDOKDTAVE 161
QY	121	GEEIEVNCATAMSKPATTTIRWFGKNEKLGKSEVEEDSMWYTSQMLMKVHKEDDGVPV 180
DB	162	GEEIEVNCATAMSKPATTTIRWFGKNEKLGKSEVEEDSMWYTSQMLMKVHKEDDGVPV 221
QY	181	ICGVEHPATVGNIGTORVYLEVQKRPVYHQMTPPLGLTRREGAFELTCEAIGKPPVWV 240

```
Db 222 ICVEHPAVTGNLQOTRYLEVQYKPOVHIOMTYPLQGLTREGDAFELTCEAIKQPQVW 281
OY 241 TWVRVDEMPQHAHVLSPNLFINNLTNDGTYRCEASNIYGAHSDYMLVYVDPPTTIP 300
Db 282 TWVRVDEMPQHAHVLSPNLFINNLTNDGTYRCEASNIYGAHSDYMLVYVDPPTTIP 341
OY 301 PPTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 336
Db 342 PPTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 377

RESULT 2
O8R5M8 PRELIMINARY: PRT: 456 AA.
AC O8R5M8;
DT 01-JUN-2002 (TREMBlrel. 21, Created)
DT 01-JUN-2002 (TREMBlrel. 21, Last sequence update)
DE 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
DE RA175.
GN RA175.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OX Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
RN NCB1_TaxID=10090;
RP SEQUENCE FROM N.A.
RA Momoi T.;
RT "Biological function of RA175, a new member of immunoglobulin super
family.";
RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL: AB064265; BAB83501.2; -.
SQ SEQUENCE 456 AA; 49787 MW; 3226E866A4B8C1C7F CRC64;

Query Match 99.1%; Score 1749.5; DB 11; Length 456;
Best Local Similarity 96.8%; Pred. No. 1.5e-137;
Matches 336; Conservative 0; Mismatches 0; Indels 11; Gaps 1;

OY 1 IPTGDCQNLFTKDVYIEGEVATISQVNSKSDSVIQLNPNKQTYFRDPRFKDSRFQ 60
Db 42 IPTGDCQNLFTKDVYIEGEVATISQVNSKSDSVIQLNPNKQTYFRDPRFKDSRFQ 101
OY 61 LNFSSSELKVSLTNVSISDEGRYFCQLYTDPPQESYTTTVLVPPRNLMIDIOKDTAVE 120
Db 102 LNFSSSELKVSLTNVSISDEGRYFCQLYTDPPQESYTTTVLVPPRNLMIDIOKDTAVE 161
OY 121 GEEIEVNCPTAMASKPATTTIRMFNGKNEKLGKSEVEEMSDMYTTSQMLKVKHEDGVPV 180
Db 162 GEEIEVNCPTAMASKPATTTIRMFNGKNEKLGKSEVEEMSDMYTTSQMLKVKHEDGVPV 221
OY 181 ICVEHPAVTGNLQOTRYLEVQYKPOVHIOMTYPLQGLTREGDAFELTCEAIKQPQVW 240
Db 222 ICVEHPAVTGNLQOTRYLEVQYKPOVHIOMTYPLQGLTREGDAFELTCEAIKQPQVW 281
OY 241 TWVRVDEMPQHAHVLSPNLFINNLTNDGTYRCEASNIYGAHSDYMLVYVDPPTTIP 300
Db 282 TWVRVDEMPQHAHVLSPNLFINNLTNDGTYRCEASNIYGAHSDYMLVYVDPPTTIP 341
OY 301 PPTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 336
Db 342 PPTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 388

RESULT 3
O9CRV3 PRELIMINARY: PRT: 494 AA.
AC O9CRV3;
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
DE 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
DE 3100001108RIK protein (Fragment).
GN IGSP4 OR 3100001108RIK.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
```

```
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCB1_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=EMBRYONIC HEAD;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arikawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamataka I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Balderelli R., Barsch G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamlya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Toyo-Oka K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyo-Oka K., Wang K.H., Weltz C., Whitaker C., Wilming L.,
RA Wyushaw-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohsaki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
DR EMBL: AK013911; BAB29050.1; -.
DR MGD; MGI:1869272; Igsf4.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR003598; Ig_C2.
DR InterPro; IPR003600; Ig_Like.
DR InterPro; IPR003006; Ig_MHC.
DR Pfam; PF00047; Ig_3.
DR SMART; SM00409; Ig_3.
DR SMART; SM00408; IIC2; 3.
DR SMART; SM00410; IG_Like; 1.
KW Immunoglobulin domain.
FT NON_TER 1
SQ SEQUENCE 494 AA; 53946 MW; F5E09ABA1857ABCO CRC64;

Query Match 99.1%; Score 1749.5; DB 11; Length 494;
Best Local Similarity 96.8%; Pred. No. 1.7e-137;
Matches 336; Conservative 0; Mismatches 0; Indels 11; Gaps 1;

OY 1 IPTGDCQNLFTKDVYIEGEVATISQVNSKSDSVIQLNPNKQTYFRDPRFKDSRFQ 60
Db 80 IPTGDCQNLFTKDVYIEGEVATISQVNSKSDSVIQLNPNKQTYFRDPRFKDSRFQ 139
OY 61 LNFSSSELKVSLTNVSISDEGRYFCQLYTDPPQESYTTTVLVPPRNLMIDIOKDTAVE 120
Db 140 LNFSSSELKVSLTNVSISDEGRYFCQLYTDPPQESYTTTVLVPPRNLMIDIOKDTAVE 199
OY 121 GEEIEVNCPTAMASKPATTTIRMFNGKNEKLGKSEVEEMSDMYTTSQMLKVKHEDGVPV 180
Db 200 GEEIEVNCPTAMASKPATTTIRMFNGKNEKLGKSEVEEMSDMYTTSQMLKVKHEDGVPV 259
OY 181 ICVEHPAVTGNLQOTRYLEVQYKPOVHIOMTYPLQGLTREGDAFELTCEAIKQPQVW 240
Db 260 ICVEHPAVTGNLQOTRYLEVQYKPOVHIOMTYPLQGLTREGDAFELTCEAIKQPQVW 319
OY 241 TWVRVDEMPQHAHVLSPNLFINNLTNDGTYRCEASNIYGAHSDYMLVYVDPPTTIP 300
Db 320 TWVRVDEMPQHAHVLSPNLFINNLTNDGTYRCEASNIYGAHSDYMLVYVDPPTTIP 379
OY 301 PPTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 336
Db 380 PPTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 426

RESULT 4
O9BY67 PRELIMINARY: PRT: 442 AA.
AC O9BY67;
ID O9BY67;
GN O9BY67;
```

DT 01-JUN-2001 (TREMBLrel. 17, Created)
 DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
 DE Necilin-like protein 2.
 GN NECIL2.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;
 RT "Cloning of a novel human cDNA encoding a member of the immunoglobulin
 RT superfamily";
 RL Submitted (MAR-1999) to the EMBL/Genbank/DBJ databases.
 DR EMBL: AF132811; AAF69029.1; -
 DR InterPro: IPR003598; Ig.
 DR InterPro: IPR003598; Ig_C2.
 DR InterPro: IPR003600; Ig_Like.
 DR InterPro: IPR003006; Ig_MHC.
 DR Pfam: PF00047; Ig_3.
 DR SMART: SM00409; IG: 3.
 DR SMART: SM00408; IGC2: 3.
 DR SMART: SM00410; IGLike: 2.
 KW Immunoglobulin domain.
 SO SEQUENCE 442 AA; 48537 MW; 68183E3238735062 CRC64;

Query Match 98.5%; Score 1738; DB 13; Length 442;
 Best Local Similarity 98.5%; Pred. No. 1.3e-136;

Matches 331; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 IPTGGQNLFTKDVYVIEGEVATISQVNVKSDSVYQLNPNRQTYFRDFRPLKDSRQ 60
 DB 39 IPTGGQNLFTKDVYVIEGEVATISQVNVKSDSVYQLNPNRQTYFRDFRPLKDSRQ 98
 QY 61 LNFSSSEKSLTVNSISDEGRFCQLYTPDPQESYTTITVLPVPRNLMIDIOKDTAVE 120
 DB 99 LNFSSSEKSLTVNSISDEGRFCQLYTPDPQESYTTITVLPVPRNLMIDIOKDTAVE 158
 QY 121 GEIEVNCNTAMSKPATITRMFKGNKELKGSEVEBMSDMYVTVSOLMLKVKHEDDGVPV 180
 DB 159 GEIEVNCNTAMSKPATITRMFKGNKELKGSEVEBMSDMYVTVSOLMLKVKHEDDGVPV 218
 QY 181 ICQVEHPAVTGNLQORYLEVOYKPOVHIOMTYPLQGLTRREGDAELTCEAIGKQPQVNV 240
 DB 219 ICQVEHPAVTGNLQORYLEVOYKPOVHIOMTYPLQGLTRREGDAELTCEAIGKQPQVNV 278
 QY 241 TVVRVDDDEMPQHAVALSGPMLFINNLKNTDNGTYRCEASNIYKKAHSDYMLVYDPTTIP 300
 DB 279 TVVRVDDDEMPQHAVALSGPMLFINNLKNTDNGTYRCEASNIYKKAHSDYMLVYDPTTIP 338
 QY 301 PPTTTTITTTTTTITTTITTSRAGEEGTIGAVDH 336
 DB 339 PPTTTTITTTTTTITTTITTSRAGEEGSIRAVDH 374

RESULT 5

Q9D6E7 PRELIMINARY: PRT: 336 AA.

DT 01-JUN-2001 (TREMBLrel. 17, Created)
 DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
 DE 2900073G06R1K protein.
 GN IGSP4 OR 2900073G06R1K.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sclurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=HIPPOCAMPUS;
 RX MEDLINE=21085660; PubMed=11217851;

RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Arakawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
 RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana K. I.,
 RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 RA Fleischmann W., Gaasterland T., Gissi C., King B., Koehle H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
 RA Schiml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
 RA Blake J., Boffelli D., Bonjuna N., Carninci P., de Bonaldo M.F.,
 RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
 RA Gustincich S., Hill D., Holtmann M., Hume D.A., Kamuya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombereils P.,
 RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Sasaki H., Sato K., Schoenbach C., Seva T., Shibata Y., Storch K.-P.,
 RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilmink L.,
 RA Wyszewski-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohlsaki S.,
 RA Hayashizaki Y.;
 RT "Functional annotation of a full-length mouse cDNA collection";
 RL Nature 409:685-690(2001).
 DR EMBL: AK013775; BAB28988.1; -
 DR MGI: 1889272; IgSF4.
 DR InterPro: IPR003599; Ig.
 DR InterPro: IPR003598; Ig.
 DR InterPro: IPR003598; Ig_C2.
 DR InterPro: IPR003600; Ig_Like.
 DR InterPro: IPR003006; Ig_MHC.
 DR Pfam: PF00047; Ig_3.
 DR SMART: SM00409; IG: 3.
 DR SMART: SM00408; IGC2: 3.
 DR SMART: SM00410; IGLike: 1.
 KW Immunoglobulin domain.
 SO SEQUENCE 336 AA; 37157 MW; FE887FA4EFD6120 CRC64;

Query Match 87.3%; Score 1541; DB 11; Length 336;
 Best Local Similarity 100.0%; Pred. No. 2.3e-120;

Matches 293; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPTGGQNLFTKDVYVIEGEVATISQVNVKSDSVYQLNPNRQTYFRDFRPLKDSRQ 60
 DB 42 IPTGGQNLFTKDVYVIEGEVATISQVNVKSDSVYQLNPNRQTYFRDFRPLKDSRQ 101
 QY 61 LNFSSSEKSLTVNSISDEGRFCQLYTPDPQESYTTITVLPVPRNLMIDIOKDTAVE 120
 DB 102 LNFSSSEKSLTVNSISDEGRFCQLYTPDPQESYTTITVLPVPRNLMIDIOKDTAVE 161
 QY 121 GEIEVNCNTAMSKPATITRMFKGNKELKGSEVEBMSDMYVTVSOLMLKVKHEDDGVPV 180
 DB 162 GEIEVNCNTAMSKPATITRMFKGNKELKGSEVEBMSDMYVTVSOLMLKVKHEDDGVPV 221
 QY 181 ICQVEHPAVTGNLQORYLEVOYKPOVHIOMTYPLQGLTRREGDAELTCEAIGKQPQVNV 240
 DB 222 ICQVEHPAVTGNLQORYLEVOYKPOVHIOMTYPLQGLTRREGDAELTCEAIGKQPQVNV 281
 QY 241 TVVRVDDDEMPQHAVALSGPMLFINNLKNTDNGTYRCEASNIYKKAHSDYMLVY 293
 DB 282 TVVRVDDDEMPQHAVALSGPMLFINNLKNTDNGTYRCEASNIYKKAHSDYMLVY 334

RESULT 6

Q922H8 PRELIMINARY: PRT: 295 AA.

DT 01-MAY-1999 (TREMBLrel. 10, Created)
 DT 01-MAY-1999 (TREMBLrel. 10, Last sequence update)
 DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
 DE Necilin-like protein 2.
 GN IGSP4 OR NECIL2.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sclurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.

RA Zhou Y., Du G., Chen J., Yuan J., Qiang B.;
RT "Cloning of a novel cDNA encoding a member of immunosuperfamily";
RL Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL: AF061260; AAC67243.1; -
DR MGD: MGI:1889272; Igsf4.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003585; Neurexin-like.
DR Pfam: PF00047; Ig_2.
DR SMART: SM00294; 4.Im; 1.
DR SMART: SM00408; IGC2; 1.
DR SMART: SM00410; IGLike; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 295 AA; 32509 MW; 9DE9D866FE6F6488 CRC64;

Query Match 68.2%; Score 1204; DB 11; Length 295;
Best Local Similarity 100.0%; Pred. No. 2,4e-92;
Matches 227; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 110 MIDIQDFAVEGEIEVNCNTAMASKPATITRMFKGNKELKGSEVEMSDMTVTTSQML 169
DB 1 MIDIQDFAVEGEIEVNCNTAMASKPATITRMFKGNKELKGSEVEMSDMTVTTSQML 60
QY 170 KVHKEDGVPVICOVHPAVTGNLQTRYLEVOYKQVHIQMTYPLQGLTRGDAFELTC 229
DB 61 KVHKEDGVPVICOVHPAVTGNLQTRYLEVOYKQVHIQMTYPLQGLTRGDAFELTC 120
QY 230 EAIGKQPQVWVTVWRVDDDEMPQHAVLSGNPLFINLNKTDNGTYRCEASNIYKKAHSDYM 289
DB 121 EAIGKQPQVWVTVWRVDDDEMPQHAVLSGNPLFINLNKTDNGTYRCEASNIYKKAHSDYM 180
QY 290 LVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 336
DB 181 LVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 227

RESULT 7

Q90YL4 PRELIMINARY; PRT; 306 AA.
AC Q90YL4;
DT 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Adhesion protein RAI175C.
GN IGSF4 OR RAI175C.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Soyama A., Fujita E., Urase K., Mukasa T., Kouroku Y., Momoi M.,
RT Momoi T.;
RT "RAI175, a novel neuron specific adhesion protein.";
RL Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL: AB021966; BAA87914.1; -
DR MGD: MGI:1889272; Igsf4.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003585; Neurexin-like.
DR Pfam: PF00047; Ig_2.
DR SMART: SM00294; 4.Im; 1.
DR SMART: SM00408; IGC2; 1.
DR SMART: SM00410; IGLike; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 306 AA; 33522 MW; A4CE37B0F23554D5 CRC64;

Query Match 66.4%; Score 1171.5; DB 11; Length 306;
Best Local Similarity 94.1%; Pred. No. 1.3e-89;
Matches 224; Conservative 1; Mismatches 2; Indels 11; Gaps 1;

QY 110 MIDIQDFAVEGEIEVNCNTAMASKPATITRMFKGNKELKGSEVEMSDMTVTTSQML 169
DB 1 MIDIQDFAVEGEIEVNCNTAMASKPATITRMFKGNKELKGSEVEMSDMTVTTSQML 60
QY 170 KVHKEDGVPVICOVHPAVTGNLQTRYLEVOYKQVHIQMTYPLQGLTRGDAFELTC 229
DB 61 KVHKEDGVPVICOVHPAVTGNLQTRYLEVOYKQVHIQMTYPLQGLTRGDAFELTC 120
QY 230 EAIGKQPQVWVTVWRVDDDEMPQHAVLSGNPLFINLNKTDNGTYRCEASNIYKKAHSDYM 289
DB 121 EAIGKQPQVWVTVWRVDDDEMPQHAVLSGNPLFINLNKTDNGTYRCEASNIYKKAHSDYM 180
QY 290 LVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 336
DB 181 LVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 238

RESULT 8

Q90YL6 PRELIMINARY; PRT; 295 AA.
AC Q90YL6;
DT 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Adhesion protein RAI175A.
GN IGSF4 OR RAI175A.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Soyama A., Fujita E., Urase K., Mukasa T., Kouroku Y., Momoi M.,
RT Momoi T.;
RT "RAI175, a novel neuron specific adhesion protein.";
RL Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL: AB021964; BAA87914.1; -
DR MGD: MGI:1889272; Igsf4.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003585; Neurexin-like.
DR Pfam: PF00047; Ig_2.
DR SMART: SM00294; 4.Im; 1.
DR SMART: SM00408; IGC2; 1.
DR SMART: SM00410; IGLike; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 295 AA; 32347 MW; FDD9E8145C6B971B CRC64;

Query Match 65.2%; Score 1151; DB 11; Length 295;
Best Local Similarity 95.6%; Pred. No. 6,2e-88;
Matches 217; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

QY 110 MIDIQDFAVEGEIEVNCNTAMASKPATITRMFKGNKELKGSEVEMSDMTVTTSQML 169
DB 1 MIDIQDFAVEGEIEVNCNTAMASKPATITRMFKGNKELKGSEVEMSDMTVTTSQML 60
QY 170 KVHKEDGVPVICOVHPAVTGNLQTRYLEVOYKQVHIQMTYPLQGLTRGDAFELTC 229
DB 61 KVHKEDGVPVICOVHPAVTGNLQTRYLEVOYKQVHIQMTYPLQGLTRGDAFELTC 120
QY 230 EAIGKQPQVWVTVWRVDDDEMPQHAVLSGNPLFINLNKTDNGTYRCEASNIYKKAHSDYM 289
DB 121 EAIGKQPQVWVTVWRVDDDEMPQHAVLSGNPLFINLNKTDNGTYRCEASNIYKKAHSDYM 180
QY 290 LVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 336
DB 181 LVYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 227

RESULT 9
Q90YL5 PRELIMINARY; PRT; 289 AA.
ID Q90YL5

AC 090YL5;
DT 01-MAY-2000 (TReMBLrel. 13, Created)
DT 01-MAY-2000 (TReMBLrel. 13, last sequence update)
DT 01-JUN-2002 (TReMBLrel. 21, last annotation update)
DE Adhesion protein RAI175B.
GN IGSF4 OR RAI175B.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Soyama A., Fujita E., Urabe K., Mukasa T., Kourouki Y., Momoi M.,
RA Momoi T.;
RT "RA175, a novel neuron specific adhesion protein.";
RL Submitted (DEC-1998) to the EMBL/Genbank/DBJ databases.
DR EMBL; AB021965; BAAB7915.1; -
DR MGI; MGI:1889272; I98f4.
DR MGD; MGI:1889272; I98f4.
DR InterPro; IPR003598; I9_C2.
DR InterPro; IPR003600; I9_1like.
DR InterPro; IPR003006; I9_MHC.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; I9_2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR SMART; SM00410; I9_1like; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 289 AA; 31811 MW; 8D1B836D0565A64 CRC64;

Query Match 60.2%; Score 1062; DB 11; Length 289;
Best Local Similarity 90.3%; Pred. No. 1.6e-80;
Matches 205; Conservative 2; Mismatches 14; Indels 6; Gaps 1;

OY 110 MIDIOKDTAVEGEELVNCNTAMASKPATITIRFKGNKELKSGSEVEMSDMTVTSQLML 169
DB 1 MIDIOKDTAVEGEELVNCNTAMASKPATITIRFKGNKELKSGSEVEMSDMTVTSQLML 60
OY 170 KYHKEDDGVVLCQVBNHNAVNTGNLQTORYLEVOYKPOVHIOMTYPLQGLTRGDAFELTC 229
DB 61 KYHKEDDGVVLCQVBNHNAVNTGNLQTORYLEVOYKPOVHIOMTYPLQGLTRGDAFELTC 120
OY 230 EAIGKPOPVWTVWVRVDDMPQHAVLGPNLFNNLNKTDNGTYRCEASNIYKAHSDYA 289
DB 121 EAIGKPOPVWTVWVRVDDMPQHAVLGPNLFNNLNKTDNGTYRCEASNIYKAHSDYI 180
OY 290 LVYVDPPTIIPPTTTTPTTTTTLIIITDSRAGEEGTIGAVDH 336
DB 181 LVYVDPPTIIPPTTTTPTTTTTLIIITDSRAGEEGTIGAVDH 221
RESULT 10
O90YL3 PRELIMINARY: PRT: 278 AA.
AC O90YL3;
DT 01-MAY-2000 (TReMBLrel. 13, Created)
DT 01-MAY-2000 (TReMBLrel. 13, last sequence update)
DT 01-JUN-2002 (TReMBLrel. 21, last annotation update)
DE Adhesion protein RAI175N.
GN IGSF4 OR RAI175N.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Soyama A., Fujita E., Urabe K., Mukasa T., Kourouki Y., Momoi M.,
RA Momoi T.;
RT "RA175, a novel neuron specific adhesion protein.";
RL Submitted (DEC-1998) to the EMBL/Genbank/DBJ databases.
DR EMBL; AB021967; BAA87917.1; -
DR MGI; MGI:1889272; I98f4.
DR SMART; IPR003598; I9_C2.
DR InterPro; IPR003600; I9_1like.

DR InterPro; IPR003006; I9_MHC.
DR InterPro; IPR003585; Neurexin-like.
DR Pfam; PF00047; I9_2.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR SMART; SM00410; I9_1like; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 278 AA; 30636 MW; A295F4DEA2724B04 CRC64;

Query Match 58.8%; Score 1038.5; DB 11; Length 278;
Best Local Similarity 88.1%; Pred. No. 1.3e-78;
Matches 200; Conservative 2; Mismatches 8; Indels 17; Gaps 1;

OY 110 MIDIOKDTAVEGEELVNCNTAMASKPATITIRFKGNKELKSGSEVEMSDMTVTSQLML 169
DB 1 MIDIOKDTAVEGEELVNCNTAMASKPATITIRFKGNKELKSGSEVEMSDMTVTSQLML 60
OY 170 KYHKEDDGVVLCQVBNHNAVNTGNLQTORYLEVOYKPOVHIOMTYPLQGLTRGDAFELTC 229
DB 61 KYHKEDDGVVLCQVBNHNAVNTGNLQTORYLEVOYKPOVHIOMTYPLQGLTRGDAFELTC 120
OY 230 EAIGKPOPVWTVWVRVDDMPQHAVLGPNLFNNLNKTDNGTYRCEASNIYKAHSDYA 289
DB 121 EAIGKPOPVWTVWVRVDDMPQHAVLGPNLFNNLNKTDNGTYRCEASNIYKAHSDYI 180
OY 290 LVYVDPPTIIPPTTTTPTTTTTLIIITDSRAGEEGTIGAVDH 336
DB 181 LVYVDPPTIIPPTTTTPTTTTTLIIITDSRAGEEGTIGAVDH 210

RESULT 11
O8R464 PRELIMINARY: PRT: 388 AA.
AC O8R464;
DT 01-JUN-2002 (TReMBLrel. 21, Created)
DT 01-JUN-2002 (TReMBLrel. 21, last sequence update)
DT 01-JUN-2002 (TReMBLrel. 21, last annotation update)
DE Membrane glycoprotein.
GN TSL2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=129/SVJ;
RA Fukami T., Maruyama T., Murakami Y.;
RT "Identification of a murine ortholog of the TSLC1-like gene 2.";
RL Submitted (OCT-2001) to the EMBL/Genbank/DBJ databases.
DR EMBL; AY059394; AAL29692.1; -
SQ SEQUENCE 388 AA; 42723 MW; 8E3A9DF1C3B9D23E CRC64;

Query Match 35.4%; Score 624; DB 11; Length 388;
Best Local Similarity 40.6%; Pred. No. 7.3e-44;
Matches 123; Conservative 62; Mismatches 112; Indels 6; Gaps 3;
OY 4 GDSQNLFTQDVYIEGEVATISQVKNKSDSVTQLNPNRQTYRFDPRPKDSRFLN 63
DB 22 GDSQNLFTQDVYIEGEVATISQVKNKSDSVTQLNPNRQTYRFDPRPKDSRFLN 81
OY 64 FSSSELKVLSTVNSISDEGRFQALYTDPRQESYTTITVLVPPRNIMIDOKDTAVEGE 123
DB 82 FSPRVRIRLSDARLEDEGGFQALYTDPRQESYTTITVLVPPRNIMIDOKDTAVEGE 140
OY 124 IEVNCNTAMASKPATITIRFKGNKELKSGSEVEMSDMTVTSQLMLKYHKEDDGVVLCQ 183
DB 141 IEVNCNTAMASKPATITIRFKGNKELKSGSEVEMSDMTVTSQLMLKYHKEDDGVVLCQ 200
OY 184 VEHNAVTVG--NLQTORYLEVOYKPOVHIOMTYPLQGLTRGDAFELTCAGKPOPVMT 241
DB 201 AQNQALPDSGHSKQTOYLVLDQVYSPTARIHAS---QAVVEGDTVLTCAVTGNPRNQIR 257
OY 242 WVRVDDMPQHAVLGPNLFNNLNKTDNGTYRCEASNIYKAHSDYMLYVYDPTTIPP 301

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Db 258 WNRGNSLPERAEVGETTLTLPGLVSADNCTYCEANKHGHARALVLYVDPGAVEA 317
OY 302 PTT 304
Db 318 QTS 320

RESULT 12
OY4A4 PRELIMINARY; PRT; 381 AA.
ID OY4A4:
AC OY4A4:
DT 01-NOV-1999 (TReMBLrel. 12, Created)
DT 01-NOV-1999 (TReMBLrel. 12, last sequence update)
DE 01-JUN-2002 (TReMBLrel. 21, last annotation update)
DE F22162.1 (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxId=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Lamerdin J.E., McCready P.M., Skowronski E., Adamson A.W.,
RA Burkhardt-Schultz K.J., Gordon L., Kyle A., Ramirez M., Stillwagen S.,
RA Phan H., Velasco N., Do L., Regala W., Terry A., Ganes J.,
RA Danganan L., Poundstone P., Christensen M., Georgescu A., Avila J.,
RA Liu S., Attix C., Andreise T., Frankheim M., Amico-Keller G.,
RA Coefield J., Duarte S., Lucas S., Bruce R., Thomas P., Quan G.,
RA Krommiller B., Ariellano A., Montgomery M., Ow D., Nolan M., Trong S.,
RA Kobayashi A., Olsen A.S., Carrano A.V.;
RT "Sequence analysis of a 2.5 Mb region in 19q13.2 containing a
RT clustered CEA/PSG gene family.";
RL Submitted (Aug-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC005525; AAC32740.1; -
DR HSSP; P80748; 2LOI.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR003585; Neurexin-like.
DR Pfam; PF00047; Ig_3.
DR SMART; SM00294; 4.1m; 1.
DR SMART; SM00408; IGC2; 1.
DR SMART; SM00410; IG_Like; 2.
KW Immunoglobulin domain.
FT
SQ SEQUENCE 381 AA; 41787 MW; 315420B36FDFC05 CRC64;

Query Match 34.6%; Score 611; DB 4; Length 381;
Best Local Similarity 39.1%; Pred. No. 8.6e-43;
Matches 126; Conservative 62; Mismatches 120; Indels 14; Gaps 5;

OY 6 GONLFTKDVTVIEGEVATISCOVNSKSDSVIQLNPNROTIFRDFRPLKDSRFQLNFS 65
Db 2 GGEVQENVTVAAGVAETCRHGYDGSIVYQNPARTLFPNGRALKDERFQLEFS 61
OY 66 SSELKAVSLTNVSIISDEGRYFCOLYTPPOESYTTIVLVPPRLMIDIOKDAVEGEIE 125
Db 62 PRVRIRLSDARLEDEGGYFCOLYTEDTHHOJATLTLVLAPENPVEV-REQAVEGEVE 120
OY 126 VNCTAMASKPATITIMFKGKELKSEVEEWSMDYTVSOLMLKHKEDDGPVVCOWE 185
Db 121 LSLGLVRSRPAATLRNTRDKRELKGVSSSENGKWSVASTYFRVDRKDDGGIILICEAO 180
OY 186 HPAVTV--NLQDQRYLEVQYKPOVHIOMTYPLQGLTRREGDAFELTCEATGKPOPVAVTW 243
Db 181 NQALPSGHSKQDQYLDVQYSPARIHAS---QAVYREGDTLVLTCAVGNRPNPDIKRN 237
OY 244 RVDDEMPQAHVLSGNLFNNLKNKTNGTYRCEASNIYKASHSDVLYVYDP---PTT- 298
Db 238 RGNESLPERAEVGETTLTLPGLVSADNCTYCEANSKHGHARALVLYVYDGESRLPTG 297
OY 299 ---IPPTTTTTTTTTTTTTTIL 317
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Db 298 GGCAPPDGAIVEAQTSVPYAI 319
RESULT 13
OY9N28 PRELIMINARY; PRT; 396 AA.
ID OY9N28:
AC OY9N28:
DT 01-JUN-2001 (TReMBLrel. 17, Created)
DT 01-JUN-2001 (TReMBLrel. 17, last sequence update)
DT 01-JUN-2002 (TReMBLrel. 21, last annotation update)
DE Nectin-like protein 1 (Membrane glycoprotein).
GN NECT1 OR TSLL1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxId=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Zhou Y., Huang X., Yuan J., Qiang B.;
RT "Cloning and expression analysis of novel mouse cDNA encoding a
RT membrane protein.";
RL Submitted (Oct-1999) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA STRAIN=129/SVJ;
RA Fukami T., Maruyama T., Murakami Y.;
RT "Identification of a murine ortholog of the TSLL1-like gene 1.";
RL EMBL; AF195662; ANG35584.1; -
DR EMBL; AY059393; AAL2691.1; -
DR MGD; MGI:2137858; Nect1.
DR InterPro: IPR003599; Ig.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003006; Ig_MHC.
DR Pfam; PF00047; Ig_3.
DR SMART; SM00409; IG_3.
DR SMART; SM00408; IGC2; 3.
DR SMART; SM00410; IG_Like; 2.
KW Immunoglobulin domain.
SQ SEQUENCE 396 AA; 42964 MW; C1ADF8B57D141F3A CRC64;

Query Match 27.2%; Score 480.5; DB 11; Length 396;
Best Local Similarity 35.0%; Pred. No. 6.8e-32;
Matches 109; Conservative 64; Mismatches 119; Indels 19; Gaps 7;

OY 5 DGOQLFTKDVTVIEGEVATISCOVNSKSDSVIQLNPNROTIFRDFRPLKDSRFQLNFS 64
Db 27 DDSQPTSDFTVAGGTAVYKCVKDHEDSSIQWSPAQDTLFFGKRALDRKRIOLVSS 86
OY 65 SSELKAVSLTNVSIISDEGRYFCOLYTPPOESYTTIVLVPPRLMIDIOKDAVEGEIE 124
Db 87 TPHELISISNVALADEGEYTCISIFMPVPTAKSLTVTGIGQKPLITGYSKSLRKEVA 146
OY 125 EVNCTAMASKPATITIMFKGKELK-KSEVEEWSM--MYTVSOLMLVHKEDDGVPI 181
Db 147 TLNCSGSGSKPAQALTWKRGDQLHGDQTRIEDPNGKTFYVSSVSFCVTRDEGDANIV 206
OY 182 COVEHPAVTG--NLQDQRYLEVQYKPOVHIOMTYPLQGLTRREGDAFELTCEATGKPOPVW 240
Db 207 CSVNHESLGLADKRSYSQRLEVLTPYAMIR---PEPAHPRREGOKLLHCEGNGNPVPOQ 263
OY 241 TWVRVDDEMP---QHAVLSGNLFNNLKNKTNGTYRCEASNIYKASHSDVLYVYDP 296
Db 264 VVWKESSEPRPKMKTQSALIFP-----FLNKDSGTYGCTATSNMGSYATYFTLVNNDPS 318
OY 297 TTIPPTTTTT 307
Db 319 ---PVSSSSST 326

RESULT 14
OY0J3P1
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ID 09UPL PRELIMINARY: PRT: 432 AA.
AC 09UPL;
DT 01-MAY-2000 (Tremblrel. 13, Created)
DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)
DT 01-JUN-2002 (Tremblrel. 21, Last annotation update)
DE BK134P22.1 (Novel protein similar to mouse IMMUNOSUPERFAMILY protein
BL2) (NECTIN-like protein 1).
GN BK134P22.1 OR NECT1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Baguley C.;
RL Submitted (Aug-1999) to the EMBL/Genbank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Zhou Y., Du G., Yuan J., Qiang B.;
RL Submitted (Apr-2001) to the EMBL/Genbank/DBJ databases.
DR EMBL: AL035403; CAB56227.1; -.
DR EMBL: AF062733; AAD17540.2; -.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR003585; Neurexin-like.
DR Pfam: PF00047; Ig_3.
DR SMART: SM00294; 4.Im; 1.
DR SMART: SM00408; IGC2. 1.
DR SMART: SM00410; IG_Like; 2.
KW Immunoglobulin domain.
SQ
SEQUENCE 432 AA: 47020 MW: AC474EPEC4C518C CRC64:

Query Match 26.5%: Score 467.5; DB 4; Length 432;
Best Local Similarity 34.4%: Pred. No. 9, 2e-31;
Matches 104; Conservative 65; Mismatches 122; Indels 11; Gaps 6;

OY 10 FTKDVTVEGEVATISCOVYKSDSYIQLNPNRQTIYFRDPRPKDSRFQLNFSSSEL 69
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 68 WTSDETVVAGGVTLKQVYHDEDSLSQWNPAAQOTLFGFKALRDNRIQLVTSPIHEL 127
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 70 KSLTVNVSIDSEGRYFCOLYTDPPQESYTTITVLPRLNMLDIOQDTAVEGEIEVNCI 129
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 128 SISISNVALLADEGEYCSITFMPVPAKSLVYLGIPOKPIITGYKSSLEKPTATLNCQ 187
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 130 AMASKPATITIMFKGNKELKGR-SEVEEMSD--MYTVTSQMLKVKHKEDDGVVICOVEH 186
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 188 SSGSKPAARLTAKKGOELHGEPTRIQEDPNKGTFTVSSSYTFQVTRDDGASIVCSVNH 247
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 187 PAVTG-NLOTORYLEVQYKPVQVHIQMTYPLQGLTREGDAFELTCEAIGKQPVMVTWVRV 245
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 248 ESLKGAIDRSYISQRIEVLVPTAMIRDP--HPRGQKLLHCEGRGNVPQQLMEK- 303
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 246 DDEMPHNVLSGNLFNNLNKTDNGTYRCASNIYGAHSDMLVYDPPPTTPTT 305
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 304 EGSVPPLKMTQESALFPLFNKSDSGTGTATSNMGSKAYVTLNVNPPS--PVPSSS 360
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 306 TT 307
   : :
DB 361 ST 362

RESULT 15
O9D006 PRELIMINARY: PRT: 549 AA.
AC O9D006;
DT 01-JUN-2001 (Tremblrel. 17, Created)
DT 01-JUN-2001 (Tremblrel. 17, Last sequence update)
DT 01-DEC-2001 (Tremblrel. 19, Last annotation update)
DE 2610301B19RLK protein.
GN 2610301B19RLK.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
```

```
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=C57BL/6J; TISSUE=EMBRYO;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Araiawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamenaka I.,
RA Saito T., Okazaki Y., Gotohori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann M., Gaasterland T., Gissi C., King B., Kochia H.,
RA Kuwani P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schriml L.M., Staudt F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamuya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Momberts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohlsaki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
DR EMBL: AK011949; BAB27933.1; -.
DR MGI: 1914402; 2610301B19RLK.
DR InterPro: IPR003599; Ig.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003006; Ig_MHC.
DR Pfam: PF00047; Ig_2.
DR SMART: SM00409; IG; 1.
DR SMART: SM00410; IG_Like; 1.
SQ
SEQUENCE 549 AA: 60703 MW: 327750BEC7319B32 CRC64:

Query Match 16.9%: Score 298; DB 11; Length 549;
Best Local Similarity 25.9%: Pred. No. 1, 7e-16;
Matches 93; Conservative 65; Mismatches 159; Indels 42; Gaps 11;

OY 6 GQNLFTKDVTVIEGEVATISC--QVYKSDSYI--QLNPNRQTI-----YFRDPRPK 55
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 58 GSITVEPHVTAWGKNVSLKCLIEVNETTQISWEIHGKSTQTVAVNHPQIGESVQGVY 117
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 56 DSRFQLNFSSSELKSLTVNVSIDSEGRYFCOLYTDPP--QESYTTITVLPRLNMLDI 113
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 118 QGVNLEKNYSLNATITLINIGSDSGKTYICAKVTPRLNAGSSTITVYLVRETVSLIK- 176
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 114 QKDTAVEG--EIEVNCYAMASKPATITIMFKGNKELKGRSEVEEMSDMYTVTSQMLKV 171
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 177 GPSSIDGNGNETVAACVSSSTGKPVQIDW-EGDLGEREFSTISPLNATIVSQYELFP 235
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 172 HKEDDGVVICOVEHNPVAVNGNLOTORYLEVQYKPVQVHIQMTYPLQGLTREGDAFELTCEA 231
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 236 YTRARARRITCVVKKHNALEEDIRSFILDIQYAVEVSIVGYDGNMFGKRG--VNLKQNA 293
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 232 IGRQPVMTYVAVDDMPHNAVLSGNPL-FINLNKTDNGTYRCASNIYGAHSDYML 290
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 294 DANRPFKSVMSRLDQWMDGLASDNTLHFVHRLVNVSGVYKVSNSLGRSROQKYI 353
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 291 YVYDPP--TTTTP-----PTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTT 326
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 354 YISDPTTTTTLPTVQMHSSPADVQDIAENKKLPRPLSLATLTKDDTIGTIIASVVG 412
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
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Search completed: November 20, 2002, 07:39:02
Job time : 29.5 secs

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```
FT Domain 357..377
FT /Label= Transmembrane_domain
FT Domain 378..423
FT /Label= Cytoplasmic_domain
XX
PN WO200008158-A2.
XX
PD 17-FEB-2000.
XX
PF 05-AUG-1999; 99WO-US17905.
XX
PR 07-AUG-1998; 98US-0095672.
XX
PA (IMMUNEX ) IMMUNEX CORP.
XX
PI Baum PR, Fanslow WC;
XX
DR WPI: 2000-205712/18.
DR N-PSDB: AA50883.
XX
XX
PT Novel molecules designated LDCAM are capable of altering or modulating
PT T cell function -
XX
XX
PS Claim 7; Page 46-47; 44pp; English.
XX
XX
CC The present amino acid sequence is the mouse lymphoid derived dendritic
CC cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic
CC cells and displays homology to adhesion molecules, B7-1 and cytoplasmic
CC region of B7-1. Mouse LDCAM is found on whole embryo, testes, triple
CC negative cells murine splenic and lymph node CD8+, S49.1 and dendritic
CC cells. LDCAM polypeptides interacts with T cell surface molecules
CC to alter signalling and inhibits T cell proliferation, bind to
CC themselves and B7-1, an LDCAM binding protein and increases natural
CC killer (NK) cell populations. It may be used to measure the biological
CC activity and as quality control reagents of LDCAM binding proteins.
CC LDCAM may be used for treating disorders associated with malfunctioning
CC of immune system, inflammation, autoimmune disorders, viral infected
CC cells, infectious diseases and for killing tumour cells. They are also
CC useful for prevention or reducing the effect of organ and bone marrow
CC transplant rejection and for modulating T cell immune responses. LDCAM
CC polypeptides may also be used as carriers for delivering agents attached
CC to T cells or cells bearing B7-1.
XX
XX
SQ Sequence 423 AA:
XX
Query Match 100.0%; Score 1765; DB 21; Length 423;
Best Local Similarity 100.0%; Pred. No. 8.2e-124;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 IPFGDQNLFTADVIEEVEVATISQVKNKSDSVIQLNPNRQTIYFDFRPLKDSRFQ 60
DB 21 IPFGDQNLFTADVIEEVEVATISQVKNKSDSVIQLNPNRQTIYFDFRPLKDSRFQ 80
QY 61 LNFSSSELKSVLTNVSISDEGRYFCQLTDPPOESYTTITVLVPPRNLMIDIOKDTAVE 120
DB 81 LNFSSSELKSVLTNVSISDEGRYFCQLTDPPOESYTTITVLVPPRNLMIDIOKDTAVE 140
QY 121 GEEIEVNCATAMASKPATITRMFKGNKELKGKSEVEEWSDMYTVTSQMLMKVHKEDGVPV 180
DB 141 GEEIEVNCATAMASKPATITRMFKGNKELKGKSEVEEWSDMYTVTSQMLMKVHKEDGVPV 200
QY 181 ICQVEHPAVTGNLQRTQRYLEVQYKPOVHIQMTYPILOGLTRREGDAFELTCEAIGKPPQVAV 240
DB 201 ICQVEHPAVTGNLQRTQRYLEVQYKPOVHIQMTYPILOGLTRREGDAFELTCEAIGKPPQVAV 260
QY 241 TTVRRVDDMPQAHVYISGPNLFINNLKNTDNGTYRCASNIYVGRKASHDYMLVYDPTTIP 300
DB 261 TTVRRVDDMPQAHVYISGPNLFINNLKNTDNGTYRCASNIYVGRKASHDYMLVYDPTTIP 320
QY 301 PPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 336
DB 321 PPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 356
```

```
RESULT 2
AAM23691
ID AAM23691 standard; Protein; 402 AA.
XX
AC AAM23691;
XX
DT 12-OCT-2001 (first entry)
XX
DE Human EST encoded protein SEQ ID NO: 1216.
XX
XX
KW Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
KW diagnostics; forensic test; gene mapping; genetic disorder;
KW biodiversity; gene therapy; nutrition.
XX
OS Homo sapiens.
XX
XX
PN WO200154477-A2.
XX
PD 02-AUG-2001.
XX
PF 25-JAN-2001; 2001WO-US02687.
XX
PR 25-JAN-2000; 2000US-0491404.
PR 17-JUL-2000; 2000US-0617746.
PR 03-AUG-2000; 2000US-0631451.
PR 15-SEP-2000; 2000US-0663870.
XX
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;
PI Cao Y, Drmanac RA, Zhang J, Werhman T;
XX
DR WPI: 2001-476164/51.
DR N-PSDB: AAH98350.
XX
XX
PT Isolated polypeptide for treatment of diseases, diagnostics, raising
PT antibodies and research use -
XX
XX
PS Claim 20; Page 877-878; 1275pp; English.
XX
XX
CC The present invention provides the protein and coding sequences of novel
CC proteins from a variety of organisms, including human, dog, cat, horse,
CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
CC urchin and tomato. These were derived from expressed sequence tags (ESTs)
CC from the organism of interest. They can be used in diagnostics,
CC forensics, gene mapping, identification of mutations, to assess
CC biodiversity and for nutritional purposes. The present sequence is a
CC protein of the invention.
XX
XX
SQ Sequence 402 AA:
XX
Query Match 98.6%; Score 1741; DB 22; Length 402;
Best Local Similarity 98.8%; Pred. No. 4.8e-122;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 1 IPFGDQNLFTADVIEEVEVATISQVKNKSDSVIQLNPNRQTIYFDFRPLKDSRFQ 60
DB 39 IPFGDQNLFTADVIEEVEVATISQVKNKSDSVIQLNPNRQTIYFDFRPLKDSRFQ 98
QY 61 LNFSSSELKSVLTNVSISDEGRYFCQLTDPPOESYTTITVLVPPRNLMIDIOKDTAVE 120
DB 99 LNFSSSELKSVLTNVSISDEGRYFCQLTDPPOESYTTITVLVPPRNLMIDIOKDTAVE 158
QY 121 GEEIEVNCATAMASKPATITRMFKGNKELKGKSEVEEWSDMYTVTSQMLMKVHKEDGVPV 180
DB 159 GEEIEVNCATAMASKPATITRMFKGNKELKGKSEVEEWSDMYTVTSQMLMKVHKEDGVPV 218
QY 181 ICQVEHPAVTGNLQRTQRYLEVQYKPOVHIQMTYPILOGLTRREGDAFELTCEAIGKPPQVAV 240
DB 219 ICQVEHPAVTGNLQRTQRYLEVQYKPOVHIQMTYPILOGLTRREGDAFELTCEAIGKPPQVAV 278
```


FT	Modified-site	402..408	/note= "N-myristoylation site"
FT	Modified-site	411..417	/note= "N-myristoylation site"
FT	Modified-site	427..433	/note= "N-myristoylation site"
FT	Modified-site	428..432	/note= "N-myristoylation site"
FT	Modified-site	430..434	/note= "N-myristoylation site"
FT	Modified-site		/note= "N-glycosylation site"
PN	WO200032776-A2.		
PD	08-JUN-2000.		
PF	01-DEC-1999;	99WO-US28301.	
PR	01-DEC-1998;	98WO-US25108.	
PR	16-DEC-1998;	98US-0112850.	
PR	22-DEC-1998;	98US-0113296.	
PA	(GETH) GENENTECH INC.		
PI	Baker KP, Botstein D, Eaton DL, Ferrara N, Flivarcoff E,		
PI	Gierlsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL,		
PI	Hillan KJ, Kljavan JY, Napier MA, Roy MA, Tumas D, Wood WI;		
XX	WPI: 2000-412324/35.		
DR	N-PSDB; AAA49563.		
XX			
PT	New human nucleic acids encoding secreted and transmembrane		
PT	polypeptides, designated as PRO polypeptides, useful as pharmaceutical		
PT	and diagnostic agents		
PS			
XX	Claim 12; Fig 24; 187pp: English.		
CC	New human nucleic acids encoding secreted and transmembrane		
CC	polypeptides which are designated as PRO polypeptides are described		
CC	The membrane-bound proteins have various industrial applications,		
CC	including as pharmaceutical and diagnostic agents. The membrane-bound		
CC	proteins can also be employed for screening of potential peptide or		
CC	small molecule inhibitors of the relevant receptor/ligand interaction.		
CC	Anti-PRO antibodies are useful for the affinity purification of PRO		
CC	from recombinant cell culture or natural sources.		
XX			
XX	Sequence 440 AA;		
XX			
XX	Query Match	98.6%; Score 1741; DB 21; Length 440;	
XX	Best Local Similarity	98.8%; Pred. No. 5,4e-122;	
XX	Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;		
OY	1 IPTGDNQLFTRKDVYIEGEVATISQVANKSDSVIQLINPRQTIYFRFRLKDSRFQ 60		
Db	37 IPTGGQNLFRKDVYIEGEVATISQVANKSDSVIQLINPRQTIYFRFRLKDSRFQ 96		
OY	61 LINFSSSELTAKSLINWVSLSDGGRYCOLYTPDPOBSYTTITVLVPPRNLMDIOKDTAVE 120		
Db	97 LINFSSSELTAKSLINWVSLSDGGRYCOLYTPDPOBSYTTITVLVPPRNLMDIOKDTAVE 156		
OY	121 GEEIEVNCTAMASKPATITIRFKGNKELKGSEVEMSDMYTVTSQMLMKVHKEDDGVVY 180		
Db	157 GEEIEVNCTAMASKPATITIRFKGNKELKGSEVEMSDMYTVTSQMLMKVHKEDDGVVY 216		
OY	181 ICQVHPAVTGNLQORLEVOYKQVHITQMTYPLQGLTRBESDAFELTCEAIGKQPVAVY 240		
Db	217 ICQVHPAVTGNLQORLEVOYKQVHITQMTYPLQGLTRBESDAFELTCEAIGKQPVAVY 276		
OY	241 TWVRVDDMPQHAVYLSGNLFLNNLNKTDNGNYRCEASIVYKAKSDMLVYDDPTTTP 300		
Db	277 TWVRVDDMPQHAVYLSGNLFLNNLNKTDNGNYRCEASIVYKAKSDMLVYDDPTTTP 336		
OY	301 PPPTTTTTTTTTTTTTLTITDTSRAGEGTCIGAVDH 336		

Db 337 PPTTTTTTTTTTTTTTTTTTTSDSRAGEGSRAYVDH 372

RESULT 5
AAU29040
ID AAU29040 standard; Protein; 440 AA.
XX
AC AAU29040;
XX
DT 18-DEC-2001 (first entry)
XX
DE Human PRO polypeptide sequence #17.
XX
KW PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder
XX
OS Homo sapiens.
XX
PN WO200168848-A2.
XX
PD 20-SEP-2001.
XX
PE 28-FEB-2001; 2001WO-US06520.
XX
PF 01-MAR-2000; 2000WO-US05601.
PR 02-MAR-2000; 2000WO-US05841.
PR 03-MAR-2000; 2000US-187202P.
PR 06-MAR-2000; 2000US-186968P.
PR 14-MAR-2000; 2000US-189328P.
PR 14-MAR-2000; 2000US-189328P.
PR 15-MAR-2000; 2000WO-US06884.
PR 21-MAR-2000; 2000US-190828P.
PR 21-MAR-2000; 2000US-191007P.
PR 21-MAR-2000; 2000US-191048P.
PR 21-MAR-2000; 2000US-191314P.
PR 28-MAR-2000; 2000US-192655P.
PR 29-MAR-2000; 2000US-193032P.
PR 29-MAR-2000; 2000US-193053P.
PR 30-MAR-2000; 2000WO-US08439.
PR 04-APR-2000; 2000US-194449P.
PR 04-APR-2000; 2000US-194647P.
PR 11-APR-2000; 2000US-195975P.
PR 11-APR-2000; 2000US-196000P.
PR 11-APR-2000; 2000US-196187P.
PR 11-APR-2000; 2000US-196690P.
PR 11-APR-2000; 2000US-196820P.
PR 18-APR-2000; 2000US-198121P.
PR 18-APR-2000; 2000US-198585P.
PR 25-APR-2000; 2000US-199397P.
PR 25-APR-2000; 2000US-199550P.
PR 25-APR-2000; 2000US-199654P.
PR 03-MAY-2000; 2000US-201516P.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14841.
PR 02-JUN-2000; 2000WO-US15264.
PR 05-JUN-2000; 2000US-209832P.
PR 28-JUL-2000; 2000WO-US20710.
PR 22-AUG-2000; 2000US-064448P.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL,
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2001-602746/68.
XX N-PSDB; AAs45941.
XX

XX Novel nucleic acids encoding PRO polypeptides, used to diagnose the
PT presence of tumours, such as prostate and breast tumours, in mammals and
XX to screen for modulators of the compounds -
PS Claim 11: Fig 34: 774pp: English.
XX
XX Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.
CC The PRO polypeptides and their associated nucleic acids can be used to
CC detect the presence of a tumour in a mammal by comparing the level of
CC expression of a PRO polypeptide in a test sample of cells from the animal
CC and a control sample of normal cells, whereby a higher level of
CC expression in the test sample indicates the presence of a tumour in the
CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
CC and rabbits but are preferably human. The polypeptides can be used to
CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
CC when contacted with it. A specific polypeptide can be used to stimulate
CC the proliferation or differentiation of chondrocyte cells. The PRO
CC proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders.
XX
SQ Sequence 440 AA:
Query Match 98.6%; Score 1741; DB 22; Length 440;
Best Local Similarity 98.8%; Pred. No. 5,4e-122;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
OY 1 IPTGCGQNLFTKDVYIEGEVATISQVKNKSDSVIQLNPNKQTYFRDFRPLKDSRQ 60
DB 37 IPTGCGQNLFTKDVYIEGEVATISQVKNKSDSVIQLNPNKQTYFRDFRPLKDSRQ 96
OY 61 LNFSSSELKSVLTNVSIDEGRYFCOLYDDPQESTYTTITVLPVRNLMIDQKTFAYE 120
DB 97 LNFSSSELKSVLTNVSIDEGRYFCOLYDDPQESTYTTITVLPVRNLMIDQKTFAYE 156
OY 121 GEEIEVNCNTAMASKPATYTRMFKGNKELKSEVEEMSDMYTTSQMLMKVHKEDGVPV 180
DB 157 GEEIEVNCNTAMASKPATYTRMFKGNKELKSEVEEMSDMYTTSQMLMKVHKEDGVPV 216
OY 181 ICQVEHPATGNLQORYLEVOYKRPVHIOQMYTPLOGLTRREGDAFLTEALGKPPVAV 240
DB 217 ICQVEHPATGNLQORYLEVOYKRPVHIOQMYTPLOGLTRREGDAFLTEALGKPPVAV 276
OY 241 TTVWRVDDDEPQAHVLSGPNLFINLNKKTNGTYRCASNIYVKAHSDYMLVYDPTTTP 300
DB 277 TTVWRVDDDEPQAHVLSGPNLFINLNKKTNGTYRCASNIYVKAHSDYMLVYDPTTTP 336
OY 301 PPTTTTTTTTTTTTTTTTTDSRAGEECTIGAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTDSRAGEECTIGAVDH 372
RESULT 6
AAB25619
ID AAB25619 standard; Protein: 442 AA.
XX
XX AAB25619:
AC
XX
XX 21-NOV-2000 (first entry)
DE Protein encoded by human secreted protein gene #11.
XX
XX Secreted protein: immunosuppressant; anti-inflammatory; antiarthritic;
KM antirheumatic; dermatological; antiproliferative; antiarteriosclerotic;
KM anticancer; vulnereary; antiviral; antibacterial; antifungal;
KM immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;
KM multiple sclerosis; inflammatory disorder; inflammatory bowel disease;
KM Crohn's disease; nephritis; hyperproliferative disorder;
KM cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;
KM melanoma; lymphoma; wound healing; human.

XX Homo sapiens.
OS
XX WO200029435-A1.
PN
XX
XX 25-MAY-2000.
PD
XX
XX 27-OCT-1999; 99W-US25031.
PF
XX
XX 28-OCT-1998; 98US-0105971.
PR
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PA
XX
XX NI J, Ruben SM, Olsen HS, Young PE, Kenny JJ, Moore PA, Wei Y;
PI Greene JM;
PI WPI: 2000-387742/33.
DR
XX
XX Isolated nucleic acid molecules encoding human secreted proteins are
PT used for the prevention, amelioration and treatment of autoimmunity,
PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,
PT wounds, and infectious diseases -
XX
PS Disclosure: Page 182-183: 803pp: English.
XX
XX The present invention relates to 12 secreted human proteins and the
CC nucleotide sequences encoding them. The polynucleotide sequences given
CC in AAB0606-A80623 encode the 12 secreted protein sequences given in
CC AAB25576-B25593. The human secreted proteins have various activities
CC dependent on the tissues in which they are expressed. Examples of the
CC activities of the proteins include: immunosuppressant;
CC anti-inflammatory; antiarthritic; antirheumatic; dermatological;
CC antiproliferative; antiarteriosclerotic; anticancer; vulnereary;
CC antiviral; antibacterial; and antifungal activity. The proteins,
CC polypeptides, agonists and antagonists may be used to treat prevent
CC and/or diagnose various disease, disorders and conditions examples of
CC which include: immune disorders e.g. Addison's disease, rheumatoid
CC arthritis, dermatitis, and multiple sclerosis; inflammatory disorders
CC e.g. inflammatory bowel disease, Crohn's disease and nephritis;
CC hyperproliferative disorders such as paraproteinaemias and purpura;
CC cardiovascular disorders e.g. coronary arteriosclerosis and myocarditis;
CC cancer e.g. melanoma and lymphoma. The proteins and polynucleotide
CC sequences may also be used in wound healing and the treatment of
CC infectious diseases. The human secreted protein gene #11 and protein
CC sequences are represented in sequences AAB0616 and AAB25586. Sequences
CC AAA80677-A80682 represent genes related to the secreted protein gene#11.
XX
SQ Sequence 442 AA:
Query Match 98.6%; Score 1741; DB 21; Length 442;
Best Local Similarity 98.8%; Pred. No. 5,4e-122;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
OY 1 IPTGCGQNLFTKDVYIEGEVATISQVKNKSDSVIQLNPNKQTYFRDFRPLKDSRQ 60
DB 39 IPTGCGQNLFTKDVYIEGEVATISQVKNKSDSVIQLNPNKQTYFRDFRPLKDSRQ 98
OY 61 LNFSSSELKSVLTNVSIDEGRYFCOLYDDPQESTYTTITVLPVRNLMIDQKTFAYE 120
DB 99 LNFSSSELKSVLTNVSIDEGRYFCOLYDDPQESTYTTITVLPVRNLMIDQKTFAYE 158
OY 121 GEEIEVNCNTAMASKPATYTRMFKGNKELKSEVEEMSDMYTTSQMLMKVHKEDGVPV 180
DB 159 GEEIEVNCNTAMASKPATYTRMFKGNKELKSEVEEMSDMYTTSQMLMKVHKEDGVPV 218
OY 181 ICQVEHPATGNLQORYLEVOYKRPVHIOQMYTPLOGLTRREGDAFLTEALGKPPVAV 240
DB 219 ICQVEHPATGNLQORYLEVOYKRPVHIOQMYTPLOGLTRREGDAFLTEALGKPPVAV 278
OY 241 TTVWRVDDDEPQAHVLSGPNLFINLNKKTNGTYRCASNIYVKAHSDYMLVYDPTTTP 300
DB 279 TTVWRVDDDEPQAHVLSGPNLFINLNKKTNGTYRCASNIYVKAHSDYMLVYDPTTTP 338

[illegible]

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PN MO200028032-A2.
XX
XX 18-MAY-2000.
PD
XX
XX 12-NOV-1999; 99WO-US26742.
XX
XX 12-NOV-1998; 98US-0191280.
XX 07-DEC-1998; 98US-0206647.
PR 08-MAR-1999; 99US-0123404.
XX
XX (INCY-) INCYTE PHARM INC.
PA
PI Tang YF, Corley NC, Guegler KJ, Yue H, Baughn MR, Lal P;
PI Hillman JL, Bandman O, Azimzai Y, Au-Young J;
XX
XX WPI: 2000-376546/32.
DR N-PSDB; AAA27051.
XX
XX New human cell surface receptor protein and polynucleotide useful for
PT diagnosis, prevention and treatment of cancer, immune disorders,
PT infection and neuronal disorders
XX
XX Claim 1; Page 81-82; 97pp; English.
XX
XX The present sequence is a novel human cell surface receptor protein
CC (HCSR) designated HCSR-8. The nucleotide sequence was identified in
CC Incyte Clone 312256 from the cDNA library LUNGNOF02, which was made from
CC RNA isolated from lung tissue. A number of Incyte Clones were used to
CC assemble the consensus sequence. BLAST analysis showed that the sequence
CC is homologous to Immuno-superfamily protein B12 g379242. HCSR and its
CC antigenist are useful for preventing or treating disorders associated
CC with decreased or increased expression or activity of HCSR. Such
CC disorders include cancers such as leukaemia and melanoma, immune
CC disorders such as rheumatoid arthritis, asthma and atherosclerosis,
CC bacterial and parasitic infections and neuronal disorders such as
CC akathesia, Alzheimer's disease, multiple sclerosis and epilepsy.
CC Polynucleotides encoding HSCRs may be used as hybridisation probes to
CC diagnose these conditions. Anti-HCSR antibodies may be used as
CC antigenists, as a targeting or delivery mechanism for bringing
CC pharmaceutical agents into contact with cells or tissues expressing
CC HCSR and for diagnosis of HCSR-related disorders. HCSR and its
CC catalytic or immunogenic fragments are useful for drug screening using
CC libraries of compounds.
XX
XX Sequence 442 AA:
SQ
Query Match 98.6%; Score 1741; DB 21; Length 442;
Best Local Similarity 98.8%; Pred. No. 5.4e-122;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
.
1 IPTGCGQLFTKDVTVIEGEVATISCVQNKSDSVYIQLNPNRQTIYRDFRPLKDSRFQ 60
DB IPTGCGQLFTKDVTVIEGEVATISCVQNKSDSVYIQLNPNRQTIYRDFRPLKDSRFQ 98
39
61 LINFSSSELKYSLTNWSISDEGRFCOLYTPDPQSSYTTITVLYVPRNLMIDIOKDTAVE 120
DB LINFSSSELKYSLTNWSISDEGRFCOLYTPDPQSSYTTITVLYVPRNLMIDIOKDTAVE 158
99 LINFSSSELKYSLTNWSISDEGRFCOLYTPDPQSSYTTITVLYVPRNLMIDIOKDTAVE 158
121 GEEIEVNCTAAMSKPATTTIRWEKGNKELKGSEVEMSDMTVTYSQLMKVHKEDDGVV 180
DB GEEIEVNCTAAMSKPATTTIRWEKGNKELKGSEVEMSDMTVTYSQLMKVHKEDDGVV 218
159 GEEIEVNCTAAMSKPATTTIRWEKGNKELKGSEVEMSDMTVTYSQLMKVHKEDDGVV 218
OY ICQVHPAVTGNLQORLEVOYKQVHIOMTYPIQGLTRBGDAEELTCEAIGKQPMV 240
DB ICQVHPAVTGNLQORLEVOYKQVHIOMTYPIQGLTRBGDAEELTCEAIGKQPMV 278
241 TWVRVDDDEMPQAVYSGNLFNLTNKNKTDNGYRCCEASNIYGAHSDMLVLYDDPTTIP 300
DB TWVRVDDDEMPQAVYSGNLFNLTNKNKTDNGYRCCEASNIYGAHSDMLVLYDDPTTIP 338
279 TWVRVDDDEMPQAVYSGNLFNLTNKNKTDNGYRCCEASNIYGAHSDMLVLYDDPTTIP 338
OY PPTTTTTTTTTTTTTTTTTTIDSRAGEGCTIGADVH 336
DB PPTTTTTTTTTTTTTTTTTTIDSRAGEGCTIGADVH 374
339 PPTTTTTTTTTTTTTTTTTTIDSRAGEGCTIGADVH 374

```

RESULT 8	
AAV45092	
ID	AAV45092 standard; Protein; 442 AA.
AC	
XX	AAV45092;
XX	
DT	31-MAY-2000 (first entry)
XX	
DE	Human lymphoid derived dendritic cell adhesion molecule.
KW	Lymphoid derived dendritic cell adhesion molecule; LDCAM; human; B7-1;
KW	B7-1; T cell proliferation; natural killer cell; NK; tumour cell;
KW	biological activity; quality control reagent; treatment; inflammation;
KW	immune system disorder; autoimmune; viral infection; infectious disease;
KW	organ transplant rejection; bone marrow; modulator; immune response.
XX	
OS	Homo sapiens.
XX	
PH	Key
FT	Domain
FT	/label= Extracellular_domain
FT	1..38
FT	/label= Leader_peptide
FT	39..442
FT	/label= Mature_human_LDCAM_polypeptide
FT	67..69
FT	/note= "N-Glycosylation site"
FT	101..103
FT	/note= "N-Glycosylation site"
FT	113..115
FT	/note= "N-Glycosylation site"
FT	165..167
FT	/note= "N-Glycosylation site"
FT	304..306
FT	/note= "N-Glycosylation site"
FT	308..310
FT	/note= "N-Glycosylation site"
FT	375..395
FT	/label= Transmembrane_domain
FT	396..442
FT	/label= Cytoplasmic_domain
XX	
PN	WO200008158-A2.
PD	17-FEB-2000.
XX	
PF	05-AUG-1999; 99WO-US17905.
XX	
PR	07-AUG-1998; 98US-0095672.
XX	
PA	(IMV) IMMUNEX CORP.
PI	Baum PR, Fanslow WC;
XX	
DR	WPI: 2000-205712/18.
XX	
XX	N-PSDB: AA250882.
PT	Novel molecules designated LDCAM are capable of altering or modulating
PT	T cell function -
XX	
PS	Claim 7; Page 42-43; 44pp; English.
XX	
CC	The present amino acid sequence is the human lymphoid derived dendritic
CC	cell adhesion molecule, LDCAM. It is found on lymphoid derived dendritic
CC	cells and displays homology to adhesion molecules, B7-1 and cytoplasmic
CC	region of B7-1. Human LDCAM is expressed in breast, retina, foetal
CC	liver, spleen and heart, lung, muscle, placenta, thymoid and lung
CC	carcinoma. LDCAM polypeptides interacts with T cell surface molecules
CC	to alter signalling and inhibits T cell proliferation, bind to
CC	themselves and B7-1, an LDCAM binding protein and increases natural
CC	killer (NK) cell populations. It may be used to measure the biological


```
RESULT 11
AAB88427
ID AAB88427 standard; Protein: 443 AA.
XX
AC AAB88427;
XX
DT 23-MAY-2001 (first entry)
XX
DE Human membrane or secretory protein clone PSEC0200.
XX
KW Human; secretory protein; membrane protein; vaccine; gene therapy;
KM rheumatoid arthritis; diabetes.
XX
OS Homo sapiens.
XX
PM EP1067182-A2.
XX
PD 10-JAN-2001.
XX
PF 07-JUL-2000; 2000EP-0114090.
XX
PR 08-JUL-1999; 99JP-0194179.
PR 11-JAN-2000; 2000JP-0118775.
PR 02-MAY-2000; 2000JP-0185766.
XX
PA (HELI-) HELIX RES INST.
XX
PI Ota T, Isozaki T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;
DR WPI: 2001-093989/11.
DR N-PSDB; AAF93854.
XX
PT Nucleic acids encoding secretory proteins/membrane proteins, useful in
PT gene therapy or as candidate target molecules in drug development -
XX
PS Claim 1; SEQ ID 222: 609bp + CD ROM; English.
XX
CC This invention relates to nucleic acid sequences AAF93744 - AAF93916
CC which encode human secretory or membrane proteins represented by
CC AAB88317 - AAB88419. Included in the invention are primers
CC AAF93917 - AAF94295 and AAF62232 - AAF62235 which are used to isolate the
CC cDNA sequences of the invention. The invention also includes methods for
CC the production of antibodies directed against the proteins, and cDNA
CC sequences, which can be used in vaccines. The polynucleotide sequences
CC can be used in gene therapy. The polynucleotide sequences and the
CC proteins they encode may be used in the prevention, treatment and
CC diagnosis of diseases associated with inappropriate secretory
CC protein/membrane protein expression. The nucleic acids and complementary
CC sequences may also be used as DNA probes in diagnostic assays
CC (e.g. polymerase chain reactions (PCR)) to detect and quantitate the
CC presence of similar nucleic acid sequences in samples. They may also be
CC used to study the expression and function of secretory proteins/membrane
CC polypeptides and their role in metabolism. The polypeptides may be used
CC as antigens in the production of antibodies against them and in assays to
CC identify modulators (agonists and antagonists) of expression and
CC activity. The antibodies and antagonists may also be used as therapeutic
CC agents to down regulate expression and activity. The antibodies may also
CC be used as diagnostic agents for detecting the presence of the
CC polypeptides in samples (e.g. by enzyme linked immunosorbant assay
CC (ELISA). Examples of diseases which may be treated include rheumatoid
CC arthritis and diabetes.
XX
SQ Sequence 443 AA:
XX
Query Match 90.2%; Score 1592.5; DB 22; Length 443;
Best Local Similarity 91.4%; Pred. No. 6,8e-111;
Matches 308; Conservative 5; Mismatches 23; Indels 1; Gaps 1;
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OY 1 IFTGCGQNLFTADVTYIEGEVATISGVNKSDDSVYQLNPNRQTYTFDFPLKDSRQ 60
DB 39 IFTGCGQNLFTADVTYIEGEVATISGVNKSDDSVYQLNPNRQTYTFDFPLKDSRQ 98
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OY 61 LINFSSSELKVSILTVNSISDEGRYFCOLYTDPPQSYTTITVLPVPPRNIMDIQKDRVE 120
DB 99 LINFSSSELKVSILTVNSISDEGRYFCOLYTDPPQSYTTITVLPVPPRNIMDIQKDRVE 158
OY 121 GGEIEVNCFTAMSKRPATTTIRMFKNKSELKSEVEMSDMYVTQSMLMKVKRKEDGVPV 180
DB 159 GGEIEVNCFTAMSKRPATTTIRMFKNKSELKSEVEMSDMYVTQSMLMKVKRKEDGVPV 218
OY 181 ICQVEHPAVTGNLQOTQRYLEVOYKPPQVHIQMTYPLQGLTREGDAFELTCEAIGKPPVAV 240
DB 219 ICQVEHPAVTGNLQOTQRYLEVOYKPPQVHIQMTYPLQGLTREGDAFELTCEAIGKPPVAV 278
OY 241 TWVRVDDDEKPOHAVALSGPNLFTNNLKNKTNDNGTYRCEASNIYKASHDWLVYDDPTTIP 300
DB 279 TWVRVDDDEKPOHAVALSGPNLFTNNLKNKTNDNGTYRCEASNIYKASHDWLVYDDPTTIP 338
OY 301 PPTTTTTTTTTTTTTTII-LTIITDSRAGEGCTIGAVDH 336
DB 339 PAVHGLTQLPNSAEEDLSDSRAGEGCTIRAVDH 375
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```
RESULT 12
AAV53028
ID AAV53028 standard; Protein: 414 AA.
XX
AC AAV53028;
XX
DT 29-FEB-2000 (first entry)
XX
DE Human secreted protein clone cw1000_2 protein sequence SEQ ID NO:62.
XX
KW Human; secreted protein; nutritional; cytokine; cell proliferation;
KW differentiation; immune stimulating; vaccine; suppression;
KW haematopoiesis regulation; tissue growth; actlyin; inhibin;
KW chemotactic; chemokine; haemostatic; thrombolytic; receptor;
KW ligand; anti-inflammatory; cadherin; tumour invasion suppressor;
KW tumour inhibition; gene therapy.
XX
OS Homo sapiens.
XX
PN W09957132-A1.
XX
PD 11-NOV-1999.
XX
PF 07-MAY-1999; 99WO-US09970.
XX
PR 07-MAY-1998; 98US-0084564.
PR 02-JUN-1998; 98US-0087645.
PR 22-JUL-1998; 98US-0093712.
PR 31-JUL-1998; 98US-0094935.
PR 10-AUG-1998; 98US-0095880.
PR 11-AUG-1998; 98US-0096068.
PR 06-MAY-1999; 99US-0096068.
XX
PA (GENY ) GENETICS INST INC.
XX
PI Jacobs K, McCoy JM, LaVallie ER, Collins-Racie LA, Evans C;
PI Merberg D, Treacy M, Agostino MJ, Steininger RJ, Bowman MR;
PI Diblasio-Smith E, Wldom A;
XX
DR WPI: 2000-052937/04.
DR N-PSDB; AA233346.
XX
PT New polynucleotides encoding secreted human proteins, derived from
PT adult placenta, adult retina, fetal brain, fetal
XX
PS Claim 71; Page 416-417; 492pp; English.
XX
CC The present invention describes new human secreted proteins which were
CC isolated from adult placenta, adult retina, foetal brain, foetal kidney,
CC adult blood, adult brain, adult thyroid, adult bladder, adult neural
CC tissue, adult testes, and adult lymph node cDNA libraries. The human
```

CC secreted proteins, and the polynucleotides encoding them, are predicted
CC to have biological activities which would make them suitable for
CC treating, preventing or ameliorating medical conditions in humans and
CC animals. Suggested activities include nutritional activity, cytokine
CC and cell proliferation/differentiation activity, immune stimulating
CC (e.g. as vaccines) or suppressing activity, haematopoiesis regulating
CC activity, tissue growth activity, activity/inhibin activity,
CC chemotactic/chemokinetic activity, haemostatic and thrombolytic
CC activity, receptor/ligand activity, anti-inflammatory activity,
CC cadherin/tumour invasion suppressor activity, and tumour inhibition
CC activity. The polynucleotides are also stated to be useful for gene
CC therapy. AA233316 to AA233373 encode human secreted proteins, and
CC AA232998 to AA233060 represent human secreted proteins, given in the
CC present invention.

XX
XX
SQ Sequence 414 AA;

Query Match 89.0%; Score 1571; DB 21; Length 414;
Best Local Similarity 90.5%; Pred. No. 2.5e-109;
Matches 304; Conservative 1; Mismatches 3; Indels 28; Gaps 1;

QY 1 IPTGDSQNLFTKDVYIEGEVATISQVVKSDSVIQLNPNKOTIYFRDPRFLKDSRFQ 60
|||||
DB 39 IPRGDSQNLFTKDVYIEGEVATISQVVKSDSVIQLNPNKOTIYFRDPRFLKDSRFQ 98
|||||
QY 61 LNFSSSELKVLSTNVSISDEGRFCQLYTPPQESYTTITVLVPRNLMTIDIOKDTAVE 120
|||||
DB 99 LNFSSSELKVLSTNVSISDEGRFCQLYTPPQESYTTITVLVPRNLMTIDIOKDTAVE 158
|||||
QY 121 GERIEVNCNMAASKPATITTRMFKGNELKGSSEVEMSDMYTTSQMLKVNKEDDGV 180
|||||
DB 159 GERIEVNCNMAASKPATITTRMFKGNELKGSSEVEMSDMYTTSQMLKVNKEDDGV 218
|||||
QY 181 ICQVEHPATVGNLQTORYLEVQYKPOVHIQMTYPLQGLTRGDAFELTCEAIKPOPV 240
|||||
DB 219 ICQVEHPATVGNLQTORYLEVQYKPOVHIQMTYPLQGLTRGDAFELTCEAIKPOPV 278
|||||
QY 241 TWRVVDDEMPQHAVALSGPNLFINLNKKTONGTYRCEASNIYKASHSDYMLVYDPTTIP 300
|||||
DB 279 TWRVVDDEMPQHAVALSGPNLFINLNKKTONGTYRCEASNIYKASHSDYMLVY 331
|||||
QY 301 PPTTTTTTTTTTTTTLITITDSRAGEBGTICAVDH 336
|||||
DB 332 -----DSRAGEEGSIRAVDH 346
|||||

RESULT 13
AAB25593
ID AAB25593 standard; Protein; 229 AA.

XX
XX
AC AAB25593;
XX
DT 21-NOV-2000 (first entry)
XX
DE Protein encoded by human secreted protein gene #11 clone H00DJ81.
XX
XX
KW Secreted protein; immunosuppressant; anti-inflammatory; antiarthritic;
KW antirheumatic; dermatological; antiproliferative; antiarteriosclerotic;
KW anticancer; vulnery; antiviral; antibacterial; antifungal;
KW immune disorder; Addison's disease; rheumatoid arthritis; dermatitis;
KW multiple sclerosis; inflammatory disorder; inflammatory bowel disease;
KW Crohn's disease; nephritis; hyperproliferative disorder;
KW cardiovascular disorder; coronary arteriosclerosis; myocarditis; cancer;
KW melanoma; lymphoma; wound healing; human.

OS Homo sapiens.
XX
XX
PN WO200029435-A1.
XX
XX
PD 25-MAY-2000.
XX
XX
PF 27-OCT-1999; 99WO-US25031.
XX

PR 28-OCT-1998; 98US-0105971.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PA
XX Ni J, Ruben SM, Olsen HS, Young PE, Kenny JT, Moore PA, Wei Y;
PI Greene JM;
XX
XX WPI; 2000-387742/33.
DR
XX
XX Isolated nucleic acid molecules encoding human secreted proteins are
PT used for the prevention, amelioration and treatment of autoimmune,
PT inflammatory, hyperproliferative and cardiovascular disorders, cancer,
PT wounds, and infectious diseases -
XX
XX
PS Claim 1; Page 685-686; 803pp; English.

CC The present invention relates to 12 secreted human proteins and the
CC nucleotide sequences encoding them. The polynucleotide sequences given
CC in AAB80606-A80623 encode the 12 secreted protein sequences given in
CC AAB25576-B25593. The human secreted proteins have various activities
CC dependent on the tissues in which they are expressed. Examples of the
CC activities of the proteins include: immunosuppressant;
CC anti-inflammatory; antiarthritic; antirheumatic; dermatological;
CC antiproliferative; antiarteriosclerotic; anticancer; vulnery;
CC antiviral; antibacterial; and antifungal activity. The proteins,
CC polypeptides, agonists and antagonists may be used to treat prevent
CC and/or diagnose various disease, disorders and conditions examples of
CC which include: immune disorders e.g. Addison's disease, rheumatoid
CC arthritis, dermatitis, and multiple sclerosis; inflammatory disorders
CC e.g. inflammatory bowel disease, Crohn's disease and nephritis;
CC hyperproliferative disorders such as paraproteinaemias and purpura;
CC cardiovascular disorders e.g. coronary arteriosclerosis and myocarditis;
CC cancer e.g. melanoma and lymphoma. The proteins and polynucleotide
CC sequences may also be used in wound healing and the treatment of
CC infectious diseases. The human secreted protein gene #11 and protein
CC sequences are represented in sequences AAB80616 and AAB25586. Sequences
CC AAB80677-A80682 represent genes related to the secreted protein gene#11.
XX
XX
SQ Sequence 229 AA;

Query Match 63.7%; Score 1124.5; DB 21; Length 229;
Best Local Similarity 95.1%; Pred. No. 2.8e-76;
Matches 214; Conservative 2; Mismatches 2; Indels 7; Gaps 1;

QY 110 MIDIOKDTAVEGEIEVNCNMAASKPATITTRMFKGNELKGSSEVEMSDMYTTSQML 169
|||||
DB 1 MIDIOKDTAVEGEIEVNCNMAASKPATITTRMFKGNELKGSSEVEMSDMYTTSQML 60
|||||
QY 170 KVNKEDDGVAVICQVEHPATVGNLQTORYLEVQYKPOVHIQMTYPLQGLTRGDAFELTC 229
|||||
DB 61 KVNKEDDGVAVICQVEHPATVGNLQTORYLEVQYKPOVHIQMTYPLQGLTRGDAFELTC 120
|||||
QY 230 EAIKGPQPVMTWVRVDDDEMPQHAVALSGPNLFINLNKKTONGTYRCEASNIYKASHSD 289
|||||
DB 121 EAIKGPQPVMTWVRVDDDEMPQHAVALSGPNLFINLNKKTONGTYRCEASNIYKASHSD 180
|||||
QY 290 LVYDPTTIPPTTTTTTTTTTTTTLITITDS-----PAGE 327
|||||
DB 181 LVYDPTTIPPTTTTTTTTTTTTTLITITDSFSQVKKASHSQ 225
|||||

RESULT 14
AAM78418
ID AAM78418 standard; Protein; 387 AA.

XX
XX
AC AAM78418;
XX
XX
DT 06-NOV-2001 (first entry)
XX
XX
DE Human protein SEQ ID NO 1080.
XX
XX
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;

KW tissue growth factor; immunomodulatory; cancer; leukaemia;
XX nervous system disorder; arthritis; inflammation.
OS Homo sapiens.
XX
XX WO200157190-A2.
XX
XX PD 09-AUG-2001.
XX
XX PF 05-FEB-2001; 2001WO-US04098.
XX
XX PR 03-FEB-2000; 2000US-0496914.
XX PR 27-APR-2000; 2000US-0560875.
XX PR 20-JUN-2000; 2000US-0596075.
XX PR 19-JUL-2000; 2000US-0620325.
XX PR 01-SEP-2000; 2000US-0654936.
XX PR 15-SEP-2000; 2000US-0663561.
XX PR 20-OCT-2000; 2000US-0693325.
XX PR 30-NOV-2000; 2000US-0728422.
XX
XX PA (HYSE-) HYSEQ INC.
XX
XX PI Tang YF, Liu C, Drmanac RT, Asundi V, Zhou P, Xu C, Cao Y, Ma Y;
XX PI Zhao Qa, Wang D, Wang J, Zhang J, Ren F, Chen R, Wang ZW;
XX PI Xue AJ, Yang Y, Wejhrman T, Goodrich R;
XX
XX DR WPI: 2001-476283/51.
XX DR N-PSDB: AAK51551.
XX
XX PT Nucleic acids encoding polypeptides with cytokine-like activities,
XX PT useful in diagnosis and gene therapy -
XX
XX PS Claim 20: Page 3307-3308; 6221pp; English.
XX
XX CC The invention relates to polynucleotides (AAK51456-AAK53435) and the
XX CC encoded polypeptides (AAM78323-AAK80302) that exhibit activity elating to
XX CC cytokine, cell proliferation or cell differentiation or which may induce
XX CC production of other cytokines in other cell populations. The
XX CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
XX CC peptide therapy. The polypeptides have various cytokine-like activities,
XX CC e.g. stem cell growth factor activity, haematopoiesis regulating
XX CC activity, tissue growth factor activity, immunomodulatory activity and
XX CC activity/inhibin activity and may be useful in the diagnosis and/or
XX CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
XX CC inflammation.
XX CC Note: Records for SEQ ID NO 2110 (AAK52581), 2111 (AAK52582) and 3666
XX CC (AAM80020) are omitted as the relevant pages from the sequence listing
XX CC were missing at the time of publication.
XX
XX SQ Sequence 387 AA:

Query Match 35.8%; Score 631; DB 22; Length 387;
Best Local Similarity 40.9%; Pred. No. 4e-39;
Matches 124; Conservative 62; Mismatches 111; Indels 6; Gaps 3;

DB 257 WNRGNSELPERRAAGEITLTLPGVSAADNGTYTCEASNKHGHARALVLYVDPGAVNEA 316
QY 302 PRT 304
DB 317 QTS 319

RESULT 15
AAV33741
ID AAV33741 standard; Protein; 444 AA.
XX
XX AC AAV33741;
XX
XX DT 09-NOV-1999 (first entry)
XX
XX DE Beta-secretase.
XX
XX KW Beta-secretase; beta-amyloid protein precursor; APP; Down's syndrome;
XX KW Alzheimer's disease.
XX
XX OS Homo sapiens.
XX
XX FH Key Location/Qualifiers
XX FT Peptide 1..23
XX FT /Label= Signal_peptide
XX FT Protein 24..444
XX FT /Label= beta-secretase
XX FT Region 377..399
XX FT /note= "Putative transmembrane region"
XX
XX PN US5942400-A.
XX
XX PD 24-AUG-1999.
XX
XX PF 07-JUN-1996; 96US-0659984.
XX
XX PR 07-JUN-1996; 96US-0659984.
XX PR 07-JUN-1995; 95US-0480498.
XX PR 07-JUN-1995; 95US-0485152.
XX
XX PA (ELAN-) ELAN PHARM INC.
XX
XX PI Anderson JP, Jacobson-Croak KL, Sinha S;
XX
XX DR WPI: 1999-517417/43.
XX DR N-PSDB: AA206640.
XX
XX PT A method for detecting human beta-secretase cleavage of polypeptides
XX PT useful for identifying beta-secretase inhibitors
XX
XX PS Examples: Fig 1; 43pp; English.
XX
XX CC This sequence is the human beta-secretase enzyme polynucleotide.
XX CC Beta-secretase is capable of cleaving the beta-amyloid precursor protein
XX CC (APP) (AAV33742;swedish mutant APP). This enzyme is used in a method for
XX CC detecting human beta-secretase cleavage of polypeptides and for
XX CC identifying beta-secretase inhibitors. The protein has a deduced
XX CC molecular weight of 49 kD, although this is without glycosylation and
XX CC the expected molecular weight is therefore higher. Inhibition of
XX CC beta-secretase activity would be useful for chemical modelling of a
XX CC critical event in the pathology of Alzheimer's disease. Inhibitors of
XX CC beta-secretase would be useful for the prevention and treatment of
XX CC Alzheimer's disease and Down's syndrome.
XX
XX SQ Sequence 444 AA:

Query Match 35.4%; Score 625.5; DB 20; Length 444;
Best Local Similarity 39.0%; Pred. No. 1.2e-38;
Matches 137; Conservative 66; Mismatches 121; Indels 27; Gaps 6;

GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.

OM protein - protein search, using sw model

Run on: November 20, 2002, 07:35:55 ; Search time 55 Seconds
(without alignments)
95.678 Million cell updates/sec

Title: US-09-778-187B-4_COPY_21_356

Perfect score: 1765
Sequence: 1 IPTDQGNLFTKDYTVIEGE.....LTIITSRKAGEGTIGAVDH 336

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 100480 seqs, 15661496 residues

Total number of hits satisfying chosen parameters: 100480

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
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14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1765	100.0	423	9	US-09-778-510-22 Sequence 22, Appl
2	1765	100.0	423	9	US-09-778-187B-4 Sequence 4, Appl
3	1741	98.6	440	9	US-09-944-413-61 Sequence 61, Appl
4	1741	98.6	440	9	US-09-944-403-61 Sequence 61, Appl
5	1741	98.6	440	9	US-09-944-896-61 Sequence 61, Appl
6	1741	98.6	440	10	US-09-866-028-61 Sequence 61, Appl
7	1741	98.6	440	10	US-09-944-449-61 Sequence 61, Appl
8	1741	98.6	440	10	US-09-944-457-61 Sequence 61, Appl
9	1741	98.6	440	10	US-09-944-862-61 Sequence 61, Appl
10	1741	98.6	440	10	US-09-945-587-61 Sequence 61, Appl
11	1741	98.6	440	10	US-09-945-015-61 Sequence 61, Appl
12	1741	98.6	440	10	US-09-944-396-61 Sequence 61, Appl
13	1741	98.6	440	10	US-09-944-097-61 Sequence 61, Appl
14	1741	98.6	440	10	US-09-944-432-61 Sequence 61, Appl
15	1741	98.6	440	10	US-09-943-762-61 Sequence 61, Appl
16	1741	98.6	440	10	US-09-944-654-61 Sequence 61, Appl
17	1741	98.6	440	10	US-09-943-851A-61 Sequence 61, Appl
18	1741	98.6	440	12	US-10-052-586-34 Sequence 34, Appl
19	1741	98.6	442	9	US-09-778-510-20 Sequence 20, Appl

20	1741	98.6	442	9	US-09-778-187B-2	Sequence 2, Appl
21	480.5	27.2	396	9	US-10-047-542-79	Sequence 79, Appl
22	480.5	27.2	398	9	US-09-778-510-4	Sequence 4, Appl
23	469.5	26.6	398	9	US-09-905-291A-84	Sequence 84, Appl
24	469.5	26.6	398	9	US-09-778-510-6	Sequence 6, Appl
25	469.5	26.6	398	9	US-09-778-187B-10	Sequence 10, Appl
26	469.5	26.6	398	10	US-09-745-763-102	Sequence 102, App
27	469.5	26.6	398	10	US-09-909-320-84	Sequence 84, Appl
28	469.5	26.6	398	10	US-09-909-088B-84	Sequence 84, Appl
29	467.5	26.5	432	9	US-09-778-510-2	Sequence 2, Appl
30	467.5	26.5	432	9	US-09-778-187B-8	Sequence 8, Appl
31	220	12.5	344	9	US-09-978-295A-523	Sequence 523, App
32	220	12.5	344	9	US-09-966-546-4	Sequence 4, Appl
33	220	12.5	344	9	US-09-966-546-6	Sequence 6, Appl
34	220	12.5	344	9	US-09-978-697-533	Sequence 523, App
35	210	11.9	1256	10	US-09-919-172-20	Sequence 20, Appl
36	209	11.8	1256	9	US-10-047-542-90	Sequence 90, Appl
37	208	11.8	662	9	US-10-047-542-80	Sequence 80, Appl
38	207.5	11.8	550	10	US-09-764-853-794	Sequence 794, App
39	207	11.7	749	10	US-09-764-853-605	Sequence 605, App
40	205	11.6	1115	12	US-10-052-586-440	Sequence 440, App
41	204	11.6	734	10	US-09-756-551A-17	Sequence 17, Appl
42	203	11.5	737	10	US-09-925-301-1133	Sequence 1133, Ap
43	197.5	11.2	350	9	US-09-808-602-71	Sequence 71, Appl
44	193.5	11.0	582	9	US-09-736-457-334	Sequence 334, App
45	193	10.9	1395	9	US-09-808-602-67	Sequence 67, Appl

ALIGNMENTS

RESULT 1
US-09-778-510-22
: Sequence 22, Application US/09778510
: Patent No. US20020164686A1
: GENERAL INFORMATION:
: APPLICANT: Baum, Peter
: TITLE OF INVENTION: Molecules Designated B7L1
: FILE REFERENCE: 2844-US
: CURRENT APPLICATION NUMBER: US/09/778, 510
: CURRENT FILING DATE: 2001-02-07
: PRIOR APPLICATION NUMBER: PCT/US99/17906
: PRIOR FILING DATE: 1999-08-05
: PRIOR APPLICATION NUMBER: 60/095,663
: NUMBER OF SEQ ID NOS: 22
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 22
: LENGTH: 423
: TYPE: PRT
: ORGANISM: Mus musculus
US-09-778-510-22

Query Match 100.0% Score 1765; DB 9; Length 423;
Best Local Similarity 100.0% Pred. 9.86-108;
Matches 336; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	IPTDQGNLFTKDYTVIEGEVATISQVKNKSDSVQLNPNKOTYFRDPRKKSRRQ	60
DB	21	IPTDQGNLFTKDYTVIEGEVATISQVKNKSDSVQLNPNKOTYFRDPRKKSRRQ	80
QY	61	LINFSSSEKVSLLTNVNSIDEGRYFCQLYTDPPQESYTTITVLVPRNLMIDIOKTAVE	120
DB	81	LINFSSSEKVSLLTNVNSIDEGRYFCQLYTDPPQESYTTITVLVPRNLMIDIOKTAVE	140
QY	121	GEIEIYNCTAMASKPATYTRMFKGNKELKGKSEVEWSMTYVTSQMLKVKHKEDGVPV	180
DB	141	GEIEIYNCTAMASKPATYTRMFKGNKELKGKSEVEWSMTYVTSQMLKVKHKEDGVPV	200
QY	181	TCOVEHPATVGNLQORVLEYOVYKPOVHTOMTYPLQGLTRREGDAFETCEAIGKPPVNV	240
DB	201	TCOVEHPATVGNLQORVLEYOVYKPOVHTOMTYPLQGLTRREGDAFETCEAIGKPPVNV	260


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: PRIOR FILING DATE: December 16, 1999
: PRIOR APPLICATION NUMBER: PCT/US00/03565
: PRIOR FILING DATE: February 11, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: February 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/05841
: PRIOR FILING DATE: March 2, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/08439
: PRIOR FILING DATE: March 30, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/14042
: PRIOR FILING DATE: May 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/20710
: PRIOR FILING DATE: July 28, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/32678
: PRIOR FILING DATE: December 1, 2000
: PRIOR APPLICATION NUMBER: PCT/US01/06520
: PRIOR FILING DATE: February 28, 2001
: NUMBER OF SEQ ID NOS: 120
: SEQ ID NO: 61
: LENGTH: 440
: TYPE: PRT
: ORGANISM: Homo Sapien
US-09-944-413-61
Query Match      98.6%; Score 1741; DB 9; Length 440;
Best Local Similarity 98.8%; Pred. No. 3,7e-106;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
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DB 37 IPTGGGONLFTDVMYIECEVATISGVNKSDDSVYQLNPNRQTYFFDFPLKRSRQ 96
QY 61 LNFSSSELKSLVTNVSISDEGRYFCQLYTDPQESYTTITLVPRNLMIDQKTAVE 120
DB 97 LNFSSSELKSLVTNVSISDEGRYFCQLYTDPQESYTTITLVPRNLMIDQKTAVE 156
QY 121 GEIEIYNCJMAASKPATTTIRMTKGNKELKGSVEEWSMVTYVSOLMLKVHKEDGCV 180
DB 157 GEIEIYNCJMAASKPATTTIRMTKGNKELKGSVEEWSMVTYVSOLMLKVHKEDGCV 216
QY 181 IGOVEHPATYGNLQOTRYLEVQYKPOVHTQMTYPLQGLTREGDAPFLTECAIGKPOPVW 240
DB 217 IGOVEHPATYGNLQOTRYLEVQYKPOVHTQMTYPLQGLTREGDAPFLTECAIGKPOPVW 276
QY 241 TWVRVDDENPQHAVALSGPNLFTNNLKNKTNDNGTYRCEASNIVGKAHSDYMLVYDPTTIP 300
DB 277 TWVRVDDENPQHAVALSGPNLFTNNLKNKTNDNGTYRCEASNIVGKAHSDYMLVYDPTTIP 336
QY 301 PPTTTTTTTTTTTTTTILTIITDSRAGEECTICAVDH 336
DB 337 PPTTTTTTTTTTTTTTILTIITDSRAGEECTICAVDH 372
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RESULT 4

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US-09-944-403-61
: Sequence 61, Application US/09944403
: Patent No. US20020165143A1
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GENERAL INFORMATION:

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: APPLICANT: Baker, Kevin
: APPLICANT: Botstein, David
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Flavio, Ellen
: APPLICANT: Gerlitsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Gurney, Austin
: APPLICANT: Hillan, Kenneth
: APPLICANT: Kijavlin, Ivar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tumas, Daniel
```

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: APPLICANT: Wood, William
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P2548P1C1
: CURRENT APPLICATION NUMBER: US/09/944,403
: CURRENT FILING DATE: 2001-09-26
: PRIOR APPLICATION NUMBER: 09/866,028
: PRIOR FILING DATE: 2001-05-25
: PRIOR APPLICATION NUMBER: 60/067,411
: PRIOR FILING DATE: December 3, 1997
: PRIOR APPLICATION NUMBER: 60/069,334
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,335
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,278
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,425
: PRIOR FILING DATE: December 12, 1997
: PRIOR APPLICATION NUMBER: 60/069,696
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,694
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,702
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,870
: PRIOR FILING DATE: December 17, 1997
: PRIOR APPLICATION NUMBER: 60/069,873
: PRIOR FILING DATE: December 17, 1997
: PRIOR APPLICATION NUMBER: 60/068,017
: PRIOR FILING DATE: December 18, 1997
: PRIOR APPLICATION NUMBER: 60/070,440
: PRIOR FILING DATE: January 5, 1998
: PRIOR APPLICATION NUMBER: 60/074,086
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/074,092
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/075,945
: PRIOR FILING DATE: February 25, 1998
: PRIOR APPLICATION NUMBER: 60/112,850
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 60/113,296
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 60/146,222
: PRIOR FILING DATE: July 28, 1999
: PRIOR APPLICATION NUMBER: PCT/US98/19330
: PRIOR FILING DATE: September 16, 1998
: PRIOR APPLICATION NUMBER: PCT/US98/25108
: PRIOR FILING DATE: December 1, 1998
: PRIOR APPLICATION NUMBER: 09/216,021
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 09/218,517
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 09/254,311
: PRIOR FILING DATE: March 3, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/12252
: PRIOR FILING DATE: June 22, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: September 15, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28409
: PRIOR FILING DATE: NO. US20020165143A1ember 30, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28313
: PRIOR FILING DATE: NO. US20020165143A1ember 30, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28301
: PRIOR FILING DATE: December 1, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/30095
: PRIOR FILING DATE: December 16, 1999
: PRIOR APPLICATION NUMBER: PCT/US00/03565
: PRIOR FILING DATE: February 11, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: February 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/05841
: PRIOR FILING DATE: March 2, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/08439
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: PRIOR FILING DATE: March 30, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/14042
: PRIOR FILING DATE: May 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/20710
: PRIOR FILING DATE: July 28, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/32678
: PRIOR FILING DATE: December 1, 2000
: PRIOR APPLICATION NUMBER: PCT/US01/06520
: PRIOR FILING DATE: February 28, 2001
: NUMBER OF SEQ ID NOS: 120
: SEQ ID NO 61
: LENGTH: 440
: TYPE: PRT
: ORGANISM: Homo Sapien
US-09-944-403-61

Query Match      98.6%; Score 1741; DB 9; Length 440;
Best Local Similarity 98.8%; Pred. No. 3.7e-106;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

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Db 37 IPTGDGONLFTKDVYIEGEVATISCOVNSKSDSVIQLNPNROTIFYRDFRPLKDSRFQ 96
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Db 97 LNFSSSELKVSLLNVSISDEGRFCOLYTPDPOESYTTITVLVPPNLMIDIQKDTAVE 156
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QY 181 ICQVEHPAVTGNLQOTRYLEVQYKPOVHIOMTYPLQGLTFREGDAFELTCBAIKPOPVW 240
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QY 241 TWVRVDEMPQAHVLSGPNLFNNLKNKTGNTYRCESNIVGKASHDYMLYVDPPTTIP 300
Db 277 TWVRVDEMPQAHVLSGPNLFNNLKNKTGNTYRCESNIVGKASHDYMLYVDPPTTIP 336
QY 301 PPTTTTTTTTTTTTTLTIITDSRAGEEGTIGAVDH 336
Db 337 PPTTTTTTTTTTTTTLTIITDSRAGEEGSIRAVDH 372

RESULT 5
US-09-944-896-61
: Sequence 61, Application US/09944896
: Patent No. US20020168715A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Botstein, David
: APPLICANT: Baton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gerritsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Gurney, Austin
: APPLICANT: Hillan, Kenneth
: APPLICANT: Kijavlin, Ivar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tunas, Daniel
: APPLICANT: Wood, William
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE REFERENCE: P2548P1C1
: CURRENT APPLICATION NUMBER: US/09/944,896
: PRIOR FILING DATE: 2001-08-31
: PRIOR APPLICATION NUMBER: 09/866,028
: PRIOR FILING DATE: 2001-05-25
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: PRIOR APPLICATION NUMBER: 60/069,334
: PRIOR FILING DATE: December 11, 1997
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: PRIOR FILING DATE: December 16, 1997
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: PRIOR FILING DATE: December 18, 1997
: PRIOR APPLICATION NUMBER: 60/070,440
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: PRIOR APPLICATION NUMBER: 60/074,086
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/074,092
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: PRIOR APPLICATION NUMBER: 60/075,945
: PRIOR FILING DATE: February 25, 1998
: PRIOR APPLICATION NUMBER: 60/112,850
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 60/113,296
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 60/146,222
: PRIOR FILING DATE: July 28, 1999
: PRIOR APPLICATION NUMBER: PCT/US98/19330
: PRIOR FILING DATE: September 16, 1998
: PRIOR APPLICATION NUMBER: PCT/US98/25108
: PRIOR FILING DATE: December 1, 1998
: PRIOR APPLICATION NUMBER: 09/216,021
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 09/218,517
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 09/254,311
: PRIOR FILING DATE: March 3, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/12252
: PRIOR FILING DATE: June 22, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: September 15, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28409
: PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28313
: PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28301
: PRIOR FILING DATE: December 1, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/30095
: PRIOR FILING DATE: December 16, 1999
: PRIOR APPLICATION NUMBER: PCT/US00/03565
: PRIOR FILING DATE: February 11, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: February 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/05841
: PRIOR FILING DATE: March 2, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/08439
: PRIOR FILING DATE: March 30, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/14042
: PRIOR FILING DATE: May 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/20710
: PRIOR FILING DATE: July 28, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/32678
: PRIOR FILING DATE: December 1, 2000
: PRIOR APPLICATION NUMBER: PCT/US01/06520
: PRIOR FILING DATE: February 28, 2001
: NUMBER OF SEQ ID NOS: 120
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; SEO ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-896-61

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Query Match	98.6%	Score 1741:	DB 9:	Length 440:
Best Local Similarity	98.8%	Pred. No. 3.7e-106:		
Matches 332; Conservative	1;	Mismatches 3:	Indels 0;	Gaps 0

Qy	1	IPRGDGNLFKKDVTYIEGEVATISQVYNKSDSVIQLMLPNQOTYIFRFRRLKSKSREQ	60
Db	37	IPRGDGNLFKKDVTYIEGEVATISQVYNKSDSVIQLMLPNQOTYIFRFRRLKSKSREQ	96
Qy	61	LNFSSESLKSLTNVNSISDGRFCQLYNDPPOESTTTTVLVPNNLIDIDIOKPAVE	120
Db	97	LNFSSESLKSLTNVNSISDGRFCQLYNDPPOESTTTTVLVPNNLIDIDIOKPAVE	156
Qy	121	GEIEIENCTAMASKPATITIMFKNKELKSKSEVEEWSDMATYTYSQMLLVKHKEDGVPV	180
Db	157	GEIEIENCTAMASKPATITIMFKNKELKSKSEVEEWSDMATYTYSQMLLVKHKEDGVPV	216
Qy	181	ICQVENRAVTCNLOTQRYLEVQYKRVYNIOMTYRLOSLTREGDAFELTCEAIKSPRVNV	240
Db	217	ICQVENRAVTCNLOTQRYLEVQYKRVYNIOMTYRLOSLTREGDAFELTCEAIKSPRVNV	276
Qy	241	TWAVVDDMROHNAVLSGRNLFINNLNKTDNGTJRCEASNIVGAHNSDYMUYVDPPTTIP	300
Db	277	TWAVVDDMROHNAVLSGRNLFINNLNKTDNGTJRCEASNIVGAHNSDYMUYVDPPTTIP	336
Qy	301	PRTTTTTTTTTTTTLTITSDSAGEEGTIGANDH	336
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RESULT 6
US-09-866-028-61

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Sequence 61, Application US/09866028
Patent No. US20020058309A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Holstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
FILE REFERENCE: p2548p1c1
CURRENT APPLICATION NUMBER: US/09/866,028
CURRENT FILING DATE: 2001-05-25
Prior Application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-866-028-61

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Qy	1	IPIDGGOMLFKDVYTVIEGEVATISCOYKNKDDSDVYQILNNRNQTYIFRDRPLKDSRFQ	60
Db	37	IPITGGOMLFKDVYTVIEGEVATISCOYKNKDDSDVYQILNNRNQTYIFRDRPLKDSRFQ	96
Qy	61	LNFNSSSELKATSLNVSISDGRYFCOLYTPRPOESYTTIVLPRPNMLIDIOKDPAVE	120
Db	97	LNFNSSSELKATSLNVSISDGRYFCOLYTPRPOESTTTIVLPRPNMLIDIOKDPAVE	156
Qy	121	GEELVNVCTAASKPATPIIRMFKNKELKGRSEVENSDMTYVLSQLMKKNKEDDGPV	180
Db	157	GEELVNVCTAASKPATPIIRMFKNTELKGRSEVENSDMTYVLSQLMKKNKEDDGPV	216
Qy	181	ICQVHPAVTGNLTQRYLEVOYKRVYHIQMTYPLQGLITREGDAFELTCEAIGKRPQVW	240
Db	217	ICQVHPAVTGNLTQRYLEVOYKRVYHIQMTYPLQGLITREGDALELTCEAIGKRPQVW	276
Qy	241	TWVRVDEDMPOHAYLSCPNLFINNLNKTDNGTYRCEASNIVGKAHSDMYLVYDPRPTTIP	300
Db	277	TWVRVDEDMPOHAYLSCPNLFINNLNKTDNGTYRCEASNIVGKAHSDMYLVYDPRPTTIP	336
Qy	301	PRPTTTTTTTTTTTTTLTIINDSRAGEGCTIGAUND 336	
Db	337	PRPTTTTTTTTTTTTTLTIINDSRAGEGCTIGAUND 372	

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1      RESULT 7
2      : Sequence 61, Application US/09944449
3      : Patent No. US20020102647A1
4      : GENERAL INFORMATION:
5      : APPLICANT: Baker, Kevin
6      : APPLICANT: Botstein, David
7      : APPLICANT: Eaton, Dan
8      : APPLICANT: Ferrara, Napoleone
9      : APPLICANT: Filvaroff, Ellen
10     : APPLICANT: Gerritsen, Mary
11     : APPLICANT: Goddard, Audrey
12     : APPLICANT: Godowski, Paul
13     : APPLICANT: Grimaldi, Christopher
14     : APPLICANT: Guiney, Austin
15     : APPLICANT: Hillan, Kenneth
16     : APPLICANT: Kljavin, Ivar
17     : APPLICANT: Napier, Mary
18     : APPLICANT: Roy, Margaret
19     : APPLICANT: Tumas, Daniel
20     : APPLICANT: Wood, William
21     : TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEOTI
22     : FILE REFERENCE: P2548P1C1
23     : CURRENT APPLICATION NUMBER: US/09/944,449
24     : CURRENT FILING DATE: 2001-09-26
25     : PRIOR APPLICATION NUMBER: 09/866,028
26     : PRIOR FILING DATE: 2001-05-25
27     : PRIOR APPLICATION NUMBER: 60/067,411
28     : PRIOR FILING DATE: December 3, 1997
29     : PRIOR APPLICATION NUMBER: 60/069,334
30     : PRIOR FILING DATE: December 11, 1997
31     : PRIOR APPLICATION NUMBER: 60/069335
32     : PRIOR FILING DATE: December 11, 1997
33     : PRIOR APPLICATION NUMBER: 60/069,278
34     : PRIOR FILING DATE: December 11, 1997
35     : PRIOR APPLICATION NUMBER: 60/069,425
36     : PRIOR FILING DATE: December 12, 1997
37     : PRIOR APPLICATION NUMBER: 60/069,696
38     : PRIOR FILING DATE: December 16, 1997
39     : PRIOR APPLICATION NUMBER: 60/069,694
40     : PRIOR FILING DATE: December 16, 1997
41     : PRIOR APPLICATION NUMBER: 60/069,702
42     : PRIOR FILING DATE: December 16, 1997
43     : PRIOR APPLICATION NUMBER: 60/069,870
44     : PRIOR FILING DATE: December 17, 1997
45     : PRIOR APPLICATION NUMBER: 60/069,873
46     : PRIOR FILING DATE: December 17, 1997

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US-09-944-449--61
: Sequence 61, Application US/099444449
: Patent No. US20020102647A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Botstein, David
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gerltsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Gurney, Austin
: APPLICANT: Hillan, Kenneth
: APPLICANT: Kljavin, Iyar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tumas, Daniel
: APPLICANT: Wood, William
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P2548P1C1
: CURRENT APPLICATION NUMBER: US/09/944,449
: CURRENT FILING DATE: 2001-09-26
: PRIOR APPLICATION NUMBER: 09/866,028
: PRIOR FILING DATE: 2001-05-25
: PRIOR APPLICATION NUMBER: 60/067,411
: PRIOR FILING DATE: December 3, 1997
: PRIOR APPLICATION NUMBER: 60/069,334
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,335
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,278
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,425
: PRIOR FILING DATE: December 12, 1997
: PRIOR APPLICATION NUMBER: 60/069,686
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,694
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,702
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,870
: PRIOR FILING DATE: December 17, 1997
: PRIOR APPLICATION NUMBER: 60/069,873
: PRIOR FILING DATE: December 17, 1997

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? PRIOR APPLICATION NUMBER: 60/068,017
? PRIOR FILING DATE: December 18, 1997
? PRIOR APPLICATION NUMBER: 60/070,440
? PRIOR FILING DATE: January 5, 1998
? PRIOR APPLICATION NUMBER: 60/074,086
? PRIOR FILING DATE: February 9, 1998
? PRIOR APPLICATION NUMBER: 60/074,092
? PRIOR FILING DATE: February 9, 1998
? PRIOR APPLICATION NUMBER: 60/075,945
? PRIOR FILING DATE: February 25, 1998
? PRIOR APPLICATION NUMBER: 60/112,850
? PRIOR FILING DATE: December 16, 1998
? PRIOR APPLICATION NUMBER: 60/113,296
? PRIOR FILING DATE: December 22, 1998
? PRIOR APPLICATION NUMBER: 60/146,222
? PRIOR FILING DATE: July 28, 1999
? PRIOR APPLICATION NUMBER: PCT/US98/19330
? PRIOR FILING DATE: September 16, 1998
? PRIOR APPLICATION NUMBER: PCT/US98/25108
? PRIOR FILING DATE: December 1, 1998
? PRIOR APPLICATION NUMBER: 09/216,021
? PRIOR FILING DATE: December 16, 1998
? PRIOR APPLICATION NUMBER: 09/218,517
? PRIOR FILING DATE: December 22, 1998
? PRIOR APPLICATION NUMBER: 09/254,311
? PRIOR FILING DATE: March 3, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/12252
? PRIOR FILING DATE: June 22, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/21090
? PRIOR FILING DATE: September 15, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28409
? PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28313
? PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/28301
? PRIOR FILING DATE: December 1, 1999
? PRIOR APPLICATION NUMBER: PCT/US99/30095
? PRIOR FILING DATE: December 16, 1999
? PRIOR APPLICATION NUMBER: PCT/US00/03565
? PRIOR FILING DATE: February 11, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/04414
? PRIOR FILING DATE: February 22, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/05841
? PRIOR FILING DATE: March 2, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/08439
? PRIOR FILING DATE: March 30, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/14042
? PRIOR FILING DATE: May 22, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/20710
? PRIOR FILING DATE: July 28, 2000
? PRIOR APPLICATION NUMBER: PCT/US00/32678
? PRIOR FILING DATE: December 1, 2000
? PRIOR APPLICATION NUMBER: PCT/US01/06520
? PRIOR FILING DATE: February 28, 2001
? NUMBER OF SEQ ID NOS: 120
? SEQ ID NO 61
? LENGTH: 440
? TYPE: PRT
? ORGANISM: Homo Sapien
US-09-944-449-61

Query Match          98.6%; Score 1741; DB 10; Length 440;
Best Local Similarity 98.8%; Pred. No. 3,7e-106;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
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QY 1 IPTGGGQNLFTADVYIAGEVATISGQVKNSDSVYIQLINPRKQTYFRDFRPLKDSRFQ 60
DB 37 IPTGGGQNLFTADVYIAGEVATISGQVKNSDSVYIQLINPRKQTYFRDFRPLKDSRFQ 96
QY 61 LINFSSSELKVSLLTNVTSDEGRYFCQLYTPDPOESYTTITVLVPPRNLMIDIKDTAVE 120
DB 97 LINFSSSELKVSLLTNVTSDEGRYFCQLYTPDPOESYTTITVLVPPRNLMIDIKDTAVE 156
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QY 121 GEEIEVNCSTAMASKPATTTIRWFKGNKELKGSVEEMSDMYTTSQMLMKVHKEDGCVVY 180
DB 157 GEEIEVNCSTAMASKPATTTIRWFKGNKELKGSVEEMSDMYTTSQMLMKVHKEDGCVVY 216
QY 181 ICVEHPAYTGNLTQRTYLEVQYKPOVHIOMTTPLOGLIREGAFELTEAIGKPPVAV 240
DB 217 ICVEHPAYTGNLTQRTYLEVQYKPOVHIOMTTPLOGLIREGAFELTEAIGKPPVAV 276
QY 241 TWRVVDDEMPHNAVLSGPNLFINNLTNGTGRCEASNTVKAHSDMYLYVDPPTTIP 300
DB 277 TWRVVDDEMPHNAVLSGPNLFINNLTNGTGRCEASNTVKAHSDMYLYVDPPTTIP 336
QY 301 PPTTTTTTTTTTTTTTTTTTTTSDRAGEEGTIGAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTTTTSDRAGEEGSIRAVDH 372

RESULT 8
US-09-944-457-61
? Sequence 61, Application US/09944457
? Patent No. US20020110859A1
? GENERAL INFORMATION:
? APPLICANT: Baker, Kevin
? APPLICANT: Baton, Dan
? APPLICANT: Ferrara, Napoleone
? APPLICANT: Filvaroff, Ellen
? APPLICANT: Gerritsen, Mary
? APPLICANT: Goddard, Audrey
? APPLICANT: Godowski, Paul
? APPLICANT: Gurney, Austin
? APPLICANT: Hillan, Kenneth
? APPLICANT: Kijavio, Ivar
? APPLICANT: Napier, Mary
? APPLICANT: Roy, Margaret
? APPLICANT: Tomas, Daniel
? APPLICANT: Wood, William
? TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
? FILE REFERENCE: P2548P1C1
? CURRENT APPLICATION NUMBER: US/09/944,457
? PRIOR FILING DATE: 2001-09-26
? PRIOR APPLICATION NUMBER: 09/866,028
? PRIOR FILING DATE: 2001-05-25
? PRIOR APPLICATION NUMBER: 60/067,411
? PRIOR FILING DATE: December 3, 1997
? PRIOR APPLICATION NUMBER: 60/069,334
? PRIOR FILING DATE: December 11, 1997
? PRIOR APPLICATION NUMBER: 60/069,335
? PRIOR FILING DATE: December 11, 1997
? PRIOR APPLICATION NUMBER: 60/069,278
? PRIOR FILING DATE: December 11, 1997
? PRIOR APPLICATION NUMBER: 60/069,425
? PRIOR FILING DATE: December 12, 1997
? PRIOR APPLICATION NUMBER: 60/069,696
? PRIOR FILING DATE: December 16, 1997
? PRIOR APPLICATION NUMBER: 60/069,694
? PRIOR FILING DATE: December 16, 1997
? PRIOR APPLICATION NUMBER: 60/069,702
? PRIOR FILING DATE: December 16, 1997
? PRIOR APPLICATION NUMBER: 60/069,870
? PRIOR FILING DATE: December 17, 1997
? PRIOR APPLICATION NUMBER: 60/069,873
? PRIOR FILING DATE: December 17, 1997
? PRIOR APPLICATION NUMBER: 60/068,017
? PRIOR FILING DATE: December 18, 1997
? PRIOR APPLICATION NUMBER: 60/070,440
? PRIOR FILING DATE: January 5, 1998
? PRIOR APPLICATION NUMBER: 60/074,086
? PRIOR FILING DATE: February 9, 1998
? PRIOR APPLICATION NUMBER: 60/074,092
? PRIOR FILING DATE: February 9, 1998
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: PRIOR APPLICATION NUMBER: 60/075,945
: PRIOR FILING DATE: February 25, 1998
: PRIOR APPLICATION NUMBER: 60/112,850
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 60/113,296
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 60/146,222
: PRIOR FILING DATE: July 28, 1999
: PRIOR APPLICATION NUMBER: PCT/US98/19330
: PRIOR FILING DATE: September 16, 1998
: PRIOR APPLICATION NUMBER: PCT/US98/25108
: PRIOR FILING DATE: December 1, 1998
: PRIOR APPLICATION NUMBER: 09/216,021
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 09/218,517
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 09/254,311
: PRIOR FILING DATE: March 3, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/12252
: PRIOR FILING DATE: June 22, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: September 15, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28301
: PRIOR FILING DATE: No. US20020110859A1ember 30, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28301
: PRIOR FILING DATE: December 1, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/30095
: PRIOR FILING DATE: December 16, 1999
: PRIOR APPLICATION NUMBER: PCT/US00/03565
: PRIOR FILING DATE: February 11, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: February 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/05841
: PRIOR FILING DATE: March 2, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/08439
: PRIOR FILING DATE: March 30, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/14042
: PRIOR FILING DATE: May 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/20710
: PRIOR FILING DATE: July 28, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/32678
: PRIOR FILING DATE: December 1, 2000
: PRIOR APPLICATION NUMBER: PCT/US01/06520
: PRIOR FILING DATE: February 28, 2001
: NUMBER OF SEQ ID NOS: 120
: SEQ ID NO 61
: LENGTH: 440
: TYPE: PRT
: ORGANISM: Homo Sapien
US-09-944-457-61

Query Match          98.6%; Score 1741; DB 10; Length 440;
Best Local Similarity 98.8%; Pred. No. 3.7e-106;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
Oy 1 IPTGGONLFTKDVIVIGGEVATISCOVKNKSDSVIQLNPKRQITTFDFEPLKDSRQ 60
Db 37 IPTGGONLFTKDVIVIGGEVATISCOVKNKSDSVIQLNPKRQITTFDFEPLKDSRQ 96
Oy 61 LNFSSSELKSLTVNVSISDEGRYFCQLYTDPQESYTTITVLPVPRNLMIDIQDTAVE 120
Db 97 LNFSSSELKSLTVNVSISDEGRYFCQLYTDPQESYTTITVLPVPRNLMIDIQDTAVE 156
Oy 121 GEIEVNCNTAASKPATITIRMFKNKELKSKSEVEKSMYTVTSQMLKVKHKEDGCVV 180
Db 157 GEIEVNCNTAASKPATITIRMFKNKELKSKSEVEKSMYTVTSQMLKVKHKEDGCVV 216
Oy 181 ICGVEHPAVTGNLQOTRYLEVOYKPPOVHNTQMTYPLQGLTREGDAPELCEATGKPOPVAV 240
Db 217 ICGVEHPAVTGNLQOTRYLEVOYKPPOVHNTQMTYPLQGLTREGDAPELCEATGKPOPVAV 276
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Oy 241 TWVRVDEMPQHAVLSCGNLFINLNKTDNGTYRCEASINVKASNDYMLVYDPTTIP 300
Db 277 TWVRVDEMPQHAVLSCGNLFINLNKTDNGTYRCEASINVKASNDYMLVYDPTTIP 336
Oy 301 PPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 336
Db 337 PPTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 372

RESULT 9
US-09-944-862-61
: Sequence 61, Application US/09944862
: Patent No. US20020115145A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Botstein, David
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gerlitsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Gurney, Austin
: APPLICANT: Hillan, Kenneth
: APPLICANT: Kijavlin, Ivar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tumas, Daniel
: APPLICANT: Wood, William
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE REFERENCE: P2548P1C1
: CURRENT APPLICATION NUMBER: US/09/944,862
: PRIOR FILING DATE: 2001-09-26
: PRIOR APPLICATION NUMBER: 09/866,028
: PRIOR FILING DATE: 2001-05-25
: PRIOR APPLICATION NUMBER: 60/067,411
: PRIOR FILING DATE: December 3, 1997
: PRIOR APPLICATION NUMBER: 60/069,334
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,335
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,278
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,425
: PRIOR FILING DATE: December 12, 1997
: PRIOR APPLICATION NUMBER: 60/069,696
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,694
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,702
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,870
: PRIOR FILING DATE: December 17, 1997
: PRIOR APPLICATION NUMBER: 60/069,873
: PRIOR FILING DATE: December 17, 1997
: PRIOR APPLICATION NUMBER: 60/068,017
: PRIOR FILING DATE: December 18, 1997
: PRIOR APPLICATION NUMBER: 60/070,440
: PRIOR FILING DATE: January 5, 1998
: PRIOR APPLICATION NUMBER: 60/074,086
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/074,092
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/075,945
: PRIOR FILING DATE: February 25, 1998
: PRIOR APPLICATION NUMBER: 60/112,850
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 60/113,296
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 60/146,222
: PRIOR FILING DATE: July 28, 1999
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;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US2002011514581ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US2002011514581ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/33095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 61
;; LENGTH: 440
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-862-61

Query Match 98.6%; Score 1741; DB 10; Length 440;
Best Local Similarity 98.8%; Pred No. 3.7e-106;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 IPTGDSQNLFTKDVYIEGEVATISQVNSKSDSVIQLNPNKQITTFRDFRPLKDSRFQ 60
DB 37 IPTGDSQNLFTKDVYIEGEVATISQVNSKSDSVIQLNPNKQITTFRDFRPLKDSRFQ 96
QY 61 LNFSSSELKVSILTNVSISSDEGRYFCQLYTDPPQESYTTITVYVPRNLMIDIKDTAVE 120
DB 97 LNFSSSELKVSILTNVSISSDEGRYFCQLYTDPPQESYTTITVYVPRNLMIDIKDTAVE 156
QY 121 GGEIEVNCATAMASKPATITRMFKGNKELKGSSEVEMSDMYTTSOLMLKVHKEDDGVPV 180
DB 157 GGEIEVNCATAMASKPATITRMFKGNKELKGSSEVEMSDMYTTSOLMLKVHKEDDGVPV 216
QY 181 ICQVEHPATVNLQOTQRYLEVQYKPOVHIQMTYPLQGLTREGDAFELTCEAIGKPOPVAV 240
DB 217 ICQVEHPATVNLQOTQRYLEVQYKPOVHIQMTYPLQGLTREGDAFELTCEAIGKPOPVAV 276
QY 241 TTVRVDDDEPQRAVLISGPNLFINNLKNTNGTYRCASNIYVKAHSDYMLYYDPPTTIP 300
DB 277 TTVRVDDDEPQRAVLISGPNLFINNLKNTNGTYRCASNIYVKAHSDYMLYYDPPTTIP 336
QY 301 PPTTT 336
DB 337 PPTTT 372

RESULT 10
US-09-945-587-61
; Sequence 61, Application US/09945587
; Patent No. US20020127643A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerlitsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavlin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/945,587
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998


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: PRIOR APPLICATION NUMBER: 09/254,311
: PRIOR FILING DATE: March 3, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/12252
: PRIOR FILING DATE: June 22, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: September 15, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28409
: PRIOR FILING DATE: No. US20020127643A1e1emr 30, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28313
: PRIOR FILING DATE: No. US20020127643A1e1emr 30, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28301
: PRIOR FILING DATE: December 1, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/30095
: PRIOR FILING DATE: December 16, 1999
: PRIOR APPLICATION NUMBER: PCT/US00/03565
: PRIOR FILING DATE: February 11, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: February 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/05841
: PRIOR FILING DATE: March 2, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/08439
: PRIOR FILING DATE: March 30, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/14042
: PRIOR FILING DATE: May 22, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/20710
: PRIOR FILING DATE: July 28, 2000
: PRIOR APPLICATION NUMBER: PCT/US00/32678
: PRIOR FILING DATE: December 1, 2000
: PRIOR APPLICATION NUMBER: PCT/US01/06520
: PRIOR FILING DATE: February 28, 2001
: NUMBER OF SEQ ID NOS: 120
: SEQ ID NO 61
: LENGTH: 440
: TYPE: PRT
: ORGANISM: Homo Sapien
US-09-945-587-61

Query Match      98.6%; Score 1741; DB 10; Length 440;
Best Local Similarity 98.8%; Pred. No. 3.7e-106;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 1PTGCGQNLFTDVIYIEEVATISQVNVKSDSVYQLNPNRQTYFFDFPLKSRQ 60
DB 37 1PTGCGQNLFTDVIYIEEVATISQVNVKSDSVYQLNPNRQTYFFDFPLKSRQ 96

QY 61 LNFSSSELKVSITNVISDEGRFCQLYTDPPOESYTTITVLVPPRNLMIDOKTAVE 120
DB 97 LNFSSSELKVSITNVISDEGRFCQLYTDPPOESYTTITVLVPPRNLMIDOKTAVE 156

QY 121 GEEIEVNCAMASKPATITRMFKGNKELKSGSEVEMSDMYTTSQMLKVKHKEDGVPV 180
DB 157 GEEIEVNCAMASKPATITRMFKGNKELKSGSEVEMSDMYTTSQMLKVKHKEDGVPV 216

QY 181 TCOVEHPAVTGNLQOTRYLEVQKPOVHQTQYTPLOGLTRREGDAFLTEALCKPQPVAV 240
DB 217 TCOVEHPAVTGNLQOTRYLEVQKPOVHQTQYTPLOGLTRREGDAFLTEALCKPQPVAV 276

QY 241 TTVWRVDDDEPQNAVLSGPNLFTNNLKNKTNGTYRCEASNVICAKHSDMYLVYDPTTIP 300
DB 277 TTVWRVDDDEPQNAVLSGPNLFTNNLKNKTNGTYRCEASNVICAKHSDMYLVYDPTTIP 336

QY 301 PPTTTTTTTTTTTTTLITITDSRAGEECTIGAVDH 336
DB 337 PPTTTTTTTTTTTTTLITITDSRAGEECTIGAVDH 372

RESULT 11
US-09-945-015-61
: Sequence 61, Application US/09945015
: Patent No. US20020132768A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Botstein, David
```

```

: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gerltsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Gurney, Austin
: APPLICANT: Hillan, Kenneth
: APPLICANT: Kijavlin, Ivar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tumas, Daniel
: APPLICANT: Wood, William
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE REFERENCE: P2548P1C1
: CURRENT APPLICATION NUMBER: US/09/945,015
: CURRENT FILING DATE: 2001-09-26
: PRIOR APPLICATION NUMBER: 09/866,028
: PRIOR FILING DATE: 2001-05-25
: PRIOR APPLICATION NUMBER: 60/067,411
: PRIOR FILING DATE: December 3, 1997
: PRIOR APPLICATION NUMBER: 60/069,334
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,335
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,278
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069,425
: PRIOR FILING DATE: December 12, 1997
: PRIOR APPLICATION NUMBER: 60/069,696
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,694
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,702
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069,870
: PRIOR FILING DATE: December 17, 1997
: PRIOR APPLICATION NUMBER: 60/069,873
: PRIOR FILING DATE: December 17, 1997
: PRIOR APPLICATION NUMBER: 60/074,086
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/074,092
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/075,945
: PRIOR FILING DATE: February 25, 1998
: PRIOR APPLICATION NUMBER: 60/112,850
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 60/113,296
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 60/146,222
: PRIOR FILING DATE: July 28, 1999
: PRIOR APPLICATION NUMBER: PCT/US98/19330
: PRIOR FILING DATE: September 16, 1998
: PRIOR APPLICATION NUMBER: PCT/US98/25108
: PRIOR FILING DATE: December 1, 1998
: PRIOR APPLICATION NUMBER: 09/216,021
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 09/218,517
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 09/254,311
: PRIOR FILING DATE: March 3, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/12252
: PRIOR FILING DATE: June 22, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: September 15, 1999
: PRIOR APPLICATION NUMBER: PCT/US99/28409
: PRIOR FILING DATE: No. US20020132768A1e1emr 30, 1999
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; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020132768A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-945-015-61
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Query Match          98.6%; Score 1741; DB 10; Length 440;
Best Local Similarity 98.8%; Pred. No. 3.7e-106;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
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QY 1 IPFGDCQNLFTKDYVYIEGVATISCOVNSKSDSVIQLNPNQOTTYFRDPRFLKDSRFQ 60
   |||
Db 37 IPFGDCQNLFTKDYVYIEGVATISCOVNSKSDSVIQLNPNQOTTYFRDPRFLKDSRFQ 96
   |||
QY 61 LNFSSSEKLVSLTNVSISEGRYFCQLYTPQESYTTITVLVPPRNLMDIQKTAVE 120
   |||
Db 97 LNFSSSEKLVSLTNVSISEGRYFCQLYTPQESYTTITVLVPPRNLMDIQKTAVE 156
   |||
QY 121 GERIEVNCAMASKPATTTTFMFGNKELGKSEVEEMSDMYTTSQMLKVNHEDEGVPY 180
   |||
Db 157 GERIEVNCAMASKPATTTTFMFGNKELGKSEVEEMSDMYTTSQMLKVNHEDEGVPY 216
   |||
QY 181 ICQVEHPATVGNLQOTRYLEVQYKPOVHIQMTYPLQGLTFREGDAFELTCEAIKPPVMY 240
   |||
Db 217 ICQVEHPATVGNLQOTRYLEVQYKPOVHIQMTYPLQGLTFREGDAFELTCEAIKPPVMY 276
   |||
QY 241 TTVRVDEMPQAHVLSGPNLFNNLKNKTONGTYRCEASNTVGRASHDYMLYVDPPTTIP 300
   |||
Db 277 TTVRVDEMPQAHVLSGPNLFNNLKNKTONGTYRCEASNTVGRASHDYMLYVDPPTTIP 336
   |||
QY 301 PPTTTTTTTTTTTTTTTTTTISRAGEEGTICAVDH 336
   |||
Db 337 PPTTTTTTTTTTTTTTTTTTISRAGEEGTICAVDH 372
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RESULT 12
US-09-944-396-61
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; Sequence 61, Application US/09944396
; Patent No. US20020132981A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
```

```

; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavlin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tomas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,396
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: NO. US20020132981A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: NO. US20020132981A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
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PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 61
LENGTH: 440
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-396-61

Query Match 98.6% Score 1741; DB 10: Length 440:
Best Local Similarity 98.8% Pred. No. 3.7e-106:
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 IPTGCGNLFTKDVYIEGEVATISCVNKSDDSVIQLNPNKQTYFRDFRPLKDSRFQ 60
DB 37 IPTGCGNLFTKDVYIEGEVATISCVNKSDDSVIQLNPNKQTYFRDFRPLKDSRFQ 96
QY 61 LNFSSSELKVLTVNSIDEGRYFCQLTDPPOESYTTITVLPVPRNLMIDOKTAYE 120
DB 97 LNFSSSELKVLTVNSIDEGRYFCQLTDPPOESYTTITVLPVPRNLMIDOKTAYE 156
QY 121 GEIEVNCAMASKPATRTIMFKGNELKSKSEVEESDMYTSOLMLKVKHEDGVPV 180
DB 157 GEIEVNCAMASKPATRTIMFKGNELKSKSEVEESDMYTSOLMLKVKHEDGVPV 216
QY 181 ICQVEHPAVTGNLQGRYLEVQYKPOVHIQMTYPLQGLTREGDAFELTCEAIKQPQVWV 240
DB 217 ICQVEHPAVTGNLQGRYLEVQYKPOVHIQMTYPLQGLTREGDAFELTCEAIKQPQVWV 276
QY 241 TTVRVDDERPOHVAIVSGPRLFTNNLNKKTNGTYRCFASNIYGAHSDYMLYYDPPTTIP 300
DB 277 TTVRVDDERPOHVAIVSGPRLFTNNLNKKTNGTYRCFASNIYGAHSDYMLYYDPPTTIP 336
QY 301 PPTTTTTTTTTTTTTTTTTTSSRAGEEGTIGAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTTSSRAGEEGTIGAVDH 372

RESULT 13
US-09-944-097-61
Sequence 61, Application US/09944097
Patent No. US20020133675A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerltsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
ACIDS ENCODING THE SAME

FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,097
CURRENT FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 15, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: NO. US20020133675A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: NO. US20020133675A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000

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; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-097-61

Query Match      98.6%; Score 1741; DB 10; Length 440;
Best Local Similarity 98.8%; Pred. No. 3.7e-106;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 IPTGDSGNLETKDYVEGEVATISCOVNSKSDSVIOLLNPNQOTYFRDPRPLKDSRFQ 60
DB 37 IPTGDSGNLETKDYVEGEVATISCOVNSKSDSVIOLLNPNQOTYFRDPRPLKDSRFQ 96
QY 61 LNFSSSELKVSLLNWSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQDPAVE 120
DB 97 LNFSSSELKVSLLNWSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMDIQDPAVE 156
QY 121 GEEIEVNCSTAMASKPATITIMFKGNKELKCKSEVEKSDMTYTSQMLKVKHKEDGVPV 180
DB 157 GEEIEVNCSTAMASKPATITIMFKGNTELKCKSEVEKSDMTYTSQMLKVKHKEDGVPV 216
QY 181 ICQVHPAVTGNLTOTORYLEVOYKRPVHIDMTYPLQGLTREGDAFELTCEAIKRPQVMV 240
DB 217 ICQVHPAVTGNLTOTORYLEVOYKRPVHIDMTYPLQGLTREGDAFELTCEAIKRPQVMV 276
QY 241 TTVRVDEMPQAHAVLSGPNLFNNLKNKTGTYRCEASNIVGKAHSDYMLVYDPPPTIP 300
DB 277 TTVRVDEMPQAHAVLSGPNLFNNLKNKTGTYRCEASNIVGKAHSDYMLVYDPPPTIP 336
QY 301 PPTTTTTTTTTTTTTTTTTTDSRAGEEGTIGAVDH 336
DB 337 PPTTTTTTTTTTTTTTTTTTDSRAGEEGSIRAVDH 372

RESULT 14
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; Sequence 61, Application US/09944432
; Patent No. US20020142419A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvarolf, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavlin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tamas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548PICI
; CURRENT APPLICATION NUMBER: US/09/944,432
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069335
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; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142419A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142419A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
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; ORGANISM: Homo Sapien
US-09-944-432-61
Query Match          98.6%; Score 1741; DB 10; Length 440;
Best Local Similarity 98.8%; Pred. No. 3.7e-106;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

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DB 37 IPTGDCGNLFYKDVIYIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRFKDSRQ 96
   |||||||

QY 61 LNFSSSELKVSILTNVISDEGRYFCQLYTDPOESYTTITVLVPRNLMIDIOKPTAVE 120
   |||||||
DB 97 LNFSSSELKVSILTNVISDEGRYFCQLYTDPOESYTTITVLVPRNLMIDIOKPTAVE 156
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QY 121 GGEIEVNCAMASKPATITRMFKGNELKSKSEVEEMSDMYTTSOLMLKVHKEDGVPV 180
   |||||||
DB 157 GGEIEVNCAMASKPATITRMFKGNELKSKSEVEEMSDMYTTSOLMLKVHKEDGVPV 216
   |||||||

QY 181 ICQVEHPAVTGNLQIQRYLEVQYKKPOVHIQMTYPLQGLTREGDAFLCEAIGKPPQVAV 240
   |||||||
DB 217 ICQVEHPAVTGNLQIQRYLEVQYKKPOVHIQMTYPLQGLTREGDAFLCEAIGKPPQVAV 276
   |||||||

QY 241 TWVRVDEMPQHAVALSGPMLFTNNLKTNGCYRCEASNIYGAHSDYMLYYVDPTTTP 300
   |||||||
DB 277 TWVRVDEMPQHAVALSGPMLFTNNLKTNGCYRCEASNIYGAHSDYMLYYVDPTTTP 336
   |||||||

QY 301 PPTTTTTTTTTTTTTTTTTTSRAGEEGTIGAVDH 336
   |||||||
DB 337 PPTTTTTTTTTTTTTTTTTTSRAGEEGSIRAVDH 372
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RESULT 15
US-09-943-762-61
; Sequence 61, Application US/09943762
; Patient No. US20020142958A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerltson, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548PICI
; CURRENT APPLICATION NUMBER: US/09/943,762
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 60/067,411
; PRIOR FILING DATE: December 3, 1997
; PRIOR APPLICATION NUMBER: 60/069,334
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,335
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,278
; PRIOR FILING DATE: December 11, 1997
; PRIOR APPLICATION NUMBER: 60/069,425
; PRIOR FILING DATE: December 12, 1997
; PRIOR APPLICATION NUMBER: 60/069,696
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,694
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; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,702
; PRIOR FILING DATE: December 16, 1997
; PRIOR APPLICATION NUMBER: 60/069,870
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/069,873
; PRIOR FILING DATE: December 17, 1997
; PRIOR APPLICATION NUMBER: 60/068,017
; PRIOR FILING DATE: December 18, 1997
; PRIOR APPLICATION NUMBER: 60/070,440
; PRIOR FILING DATE: January 5, 1998
; PRIOR APPLICATION NUMBER: 60/074,086
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/074,092
; PRIOR FILING DATE: February 9, 1998
; PRIOR APPLICATION NUMBER: 60/075,945
; PRIOR FILING DATE: February 25, 1998
; PRIOR APPLICATION NUMBER: 60/112,850
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 60/113,296
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 60/146,222
; PRIOR FILING DATE: July 28, 1999
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: September 16, 1998
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: December 1, 1998
; PRIOR APPLICATION NUMBER: 09/216,021
; PRIOR FILING DATE: December 16, 1998
; PRIOR APPLICATION NUMBER: 09/218,517
; PRIOR FILING DATE: December 22, 1998
; PRIOR APPLICATION NUMBER: 09/254,311
; PRIOR FILING DATE: March 3, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: June 22, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: September 15, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28409
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020142958A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 61
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-943-762-61
Query Match          98.6%; Score 1741; DB 10; Length 440;
Best Local Similarity 98.8%; Pred. No. 3.7e-106;
Matches 332; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 IPTGDCGNLFYKDVIYIEGEVATISCVNKSDDSVIQLNPNRQTIYFRDPRFKDSRQ 60
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Db 37 IPFGDQONLFTKDVYIEGEVATISCOVNKSDSVIQLNPNROTIFYRDRPLKDSRFQ 96
QY 61 LNFSSSELKVSILTNSISDEGRVFCOLYDPPOESYTTITVLVPPRNLMIDIOKDTAVE 120
Db 97 LNFSSSELKVSILTNSISDEGRVFCOLYDPPOESYTTITVLVPPRNLMIDIOKDTAVE 156
QY 121 GEEIEVNCTAMASKPATTTIMFKGNKELKGSEVEWSDMYTVTSQMLKVKHKEDDGV 180
Db 157 GEEIEVNCTAMASKPATTTIMFKGNKELKGSEVEWSDMYTVTSQMLKVKHKEDDGV 216
QY 181 ICQVEHPAVTGNLQOTQRYLEVQYKPOVHIQMTYPLQGLTREGDAFELTCEAIGKPPVMY 240
Db 217 ICQVEHPAVTGNLQOTQRYLEVQYKPOVHIQMTYPLQGLTREGDAFELTCEAIGKPPVMY 276
QY 241 TWVRVDDEMPQHAVALSGPNLFINNLNKTDNGTYRCEASNIVGKAHSDYMLYVYDPPTTIP 300
Db 277 TWVRVDDEMPQHAVALSGPNLFINNLNKTDNGTYRCEASNIVGKAHSDYMLYVYDPPTTIP 336
QY 301 PPTTTTTTTTTTTTTTTTTITDSRAGEEGTIGAVDH 336
Db 337 PPTTTTTTTTTTTTTTTTTITDSRAGEEGSIRAVDH 372

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Job time : 57 secs